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OHIO
AGRICULTURAL
STATISTICS
SERVICE

MAY 1986

1985 OHIO AGRICULTURAL STATISTICS

RICHARD F. CELESTE
GOVERNOR

STATE OF OHIO
OFFICE OF THE GOVERNOR
COLUMBUS 43266-0601

Ohio can be proud of its agricultural heritage and the strength of its number #1 industry.

Our diversified commodity production and the quality of rural life have served to keep Ohio at the heart of it all in agribusiness and agricultural production.

I am pleased that two reports could be combined as a single source of information for those interested in Ohio agriculture. This report symbolizes the cooperation between the Ohio Department of Agriculture and the Ohio Agricultural Statistics Service. It also serves to highlight the many accomplishments that this state has made in support of the agricultural industry and Ohio's farmers.

Government, farmers, and agribusiness will continue to work together for the benefit of Ohio's agricultural industry. Through these efforts, Ohio's urban citizens are becoming aware of the importance of a healthy agricultural economy.

We will continue to strive for the prosperity of Ohio's agricultural communities, and we will continue to support this very important part of Ohio's heritage.

With best regards,

Richard F. Celeste

Richard F. Celeste
Governor

OHIO DEPARTMENT OF AGRICULTURE

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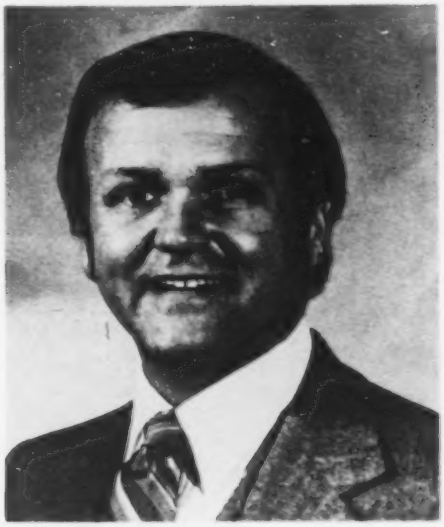

In accordance with Section 149.01 of the Ohio Revised Code, I am pleased to present to you the 1985 Annual Report for the Ohio Department of Agriculture and the annual data from the Ohio Agricultural Statistics Services.

For the first time, with the support of Governor Richard F. Celeste, we have been able to combine this annual data, distributed by the Ohio Agricultural Statistics Service with the 1985 Annual Report from the Ohio Department of Agriculture. In cooperation with the Ohio Cooperative Extension Service, we were able to print this material at a cost savings.

This information highlights Ohio's agricultural industry and provides essential data and information for farm and agri-business use. It also highlights the accomplishments that the Ohio Department of Agriculture has made for Ohio agriculture and the services provided by the department for Ohio's farmers and consumers.

There are many more tasks that still must be accomplished for Ohio's agricultural industry and, we will continue to work together to promote agriculture and its importance to Ohio and the nation.

Sincerely,

OHIO DEPARTMENT OF AGRICULTURE

Steven Maurer

Steven D. Maurer
Director

1985
OHIO AGRICULTURAL STATISTICS

Compiled by
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* * * * * * * * * * * * * * * * *

ACKNOWLEDGEMENTS

Estimates made by the Ohio Agricultural Statistics Service are based on information supplied by farmers and agribusinesses. These estimates are the result of the data collected on probability designed surveys. Considerable information is collected from farmers randomly selected for telephone or personal interviews. Data for county estimates are collected from a large mail survey and, where available, check data are used to the extent possible.

Our sincere appreciation is extended to the large number of Ohio farmers and agri-businessmen for their interest and cooperation in providing the basic data used to prepare the estimates for this bulletin.

Our sincere thanks are also extended to the office staff, field and telephone interviewers of the Ohio Agricultural Statistics Service. The cover picture and layout were provided by Rudy Byrd, Don Mortensen and Malcolm Emmons of the Ohio Cooperative Extension Service.

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OHIO CROP REPORTING DISTRICTS

PROFILE OF OHIO AGRICULTURE 1985[1]

Commodity	Unit	Ohio			State ranked first		
		Rank 7/	Prod. or inventory 2/	Value of production	State	Prod. or inventory	Value of production
			Thousands			Thousands	
Field Crops							
Corn for grain	Bu.	6	511,810	1,253,935	Iowa	1,707,300	3,926,790
Corn for silage	Ton	9	3,400	-	Wisconsin	11,250	-
Oats	Bu.	6	26,350	30,303	S. Dakota	79,520	87,472
Wheat, winter	Bu.	8	58,900	176,700	Kansas	433,200	1,321,260
Rye	Bu.	21	172	568	S. Dakota	4,440	8,214
Soybeans	Bu.	5	160,605	827,116	Illinois	382,500	2,046,375
Hay, all (baled)	Ton	14	4,600	271,400	Wisconsin	11,120	934,080
Sugar beets	Ton	11	258	3/	Minnesota	5,088	3/
Potatoes, all	Cwt.	19	2,806	12,508	Idaho	102,515	322,922
Tobacco: Burley (31)	Lb.	5	15,265	24,271	Kentucky	395,250	632,005
Other (42-44)	Lb.	1	1,681	1,462	**Ohio**	**1,681**	**1,462**
Vegetables, Fresh							
Sweet corn	Cwt.	4	1,186	14,825	Florida	4,617	66,947
Lettuce	Cwt.	13	122	4,355	California	44,469	475,818
Tomatoes	Cwt.	7	575	11,500	Florida	14,601	370,865
Celery	Cwt.	5	207	2,215	California	13,241	129,753
Onions, storage	Cwt.	9	211	1,744	Oregon	6,715	28,309
Total fresh vegetables 4/	Cwt.	13	2,641	35,659	California	107,702	1,414,615
Vegetables, Processing							
Tomatoes for processing	Ton	2	405	31.3	California	6,102	391,141
Fruit							
Apples	Lb.	10	145,000	20,100	Washington	2,100,000	274,080
Grapes	Ton	8	7	1,093	California	5,180	905,756
Peaches	Lb.	-	6/	-	California	1,471,000	156,104
Strawberries	Cwt.	7	92	5,520	California	7,738	333,913
Grape products	Ton	7	6.6	853	California	4,435	702,672
Poultry and Poultry Products							
Chickens, total inv., Dec. 1, 1985	Head	7	19,200	-	California	39,220	-
Chickens - production	Lb.	9	44,000	8,360	Georgia	94,613	16,557
Broilers - production	Lb.	25	37,800	9,639	Arkansas	3,115,848	981,492
Turkey production	Lb.	17	71,120	34,138	N. Carolina	595,595	297,798
Egg production, Dec. 1984-Nov. 1985	000 eggs	6	3,592	125,720	California	8,052	335,500
Livestock							
Hogs & pigs inv., Dec. 1, 1985	Head	8	1,980	-	Iowa	13,500	-
Hogs & pigs production (live wt.)	Lb.	8	736,098	323,914	Iowa	5,457,689	2,385,339
All cattle & calves inv., Jan. 1, 1986	Head	20	1,840	-	Texas	13,600	-
Cattle & calves production (live wt.)	Lb.	21	616,890	312,698	Texas	5,320,460	2,936,117
Beef cows inv., Jan. 1, 1986	Head	30	385	-	Texas	5,178	-
Milk cows inv., Jan. 1, 1986	Head	7	390	-	Wisconsin	1,892	-
Sheep & lamb inv., Jan. 1, 1986	Head	13	275	-	Texas	1,810	-
Sheep & lamb production (live wt.)	Lb.	13	17,205	10,851	Texas	103,150	64,256
Cattle slaughtered	Head	15	570.7	-	Kansas	6,191.9	-
Hogs slaughtered	Head	6	4,252.2	-	Iowa	21,096.2	-
Calves slaughtered	Head	14	93.3	-	New York	572.8	-
Sheep & lambs slaughtered	Head	18	28.1	-	Colorado	1,237.2	-
Wool	Lb.	12	2,001	900	Texas	16,200	13,284
Red meat production	Lb.	11	1,115,556	-	Iowa	5,164,006	-
Livestock slaughtering establishments, (not 000) 1/1/86	No.	6	238	-	Iowa	329	-

PROFILE OF OHIO AGRICULTURE 1985[1]

Commodity	Unit	Ohio			State ranked first		
		7/ Rank	Prod. or 2/ inventory	Value of production	State	Prod. or inventory	Value of production
			Thousands			Thousands	
Milk and Milk Products							
Milk production	000 lb.	7	4,870	625,652	Wisconsin	25,107	3,081,369
All cheese (excl. cottage cheese)	Lb.	10	106,608	-	Wisconsin	1,778,265	-
Swiss cheese	Lb.	1	54,587	-	**Ohio**	**54,587**	-
American type cheese	Lb.	13	33,354	-	Wisconsin	1,089,231	-
Lowfat cottage cheese	Lb.	3	13,168	-	California	57,619	-
Creamed cottage cheese	Lb.	4	40,941	-	New York	104,745	-
Cottage cheese curd	Lb.	5	25,707	-	New York	103,898	-
Ice cream	Gal.	6	45,106	-	California	103,213	-
Ice milk	Gal.	6	12,860	-	California	31,183	-
Milk sherbet	Gal.	4	3,056	-	California	4,986	-
Water ices	Gal.	4	3,031	-	Texas	5,410	-
Butter	Lb.	9	19,858	-	Wisconsin	295,582	-
Manufactured dairy plants (not 000)	No.	5	84	-	Wisconsin	400	-
Miscellaneous							
Number of farms 1985	No.	8	89	-	Texas	184	-
Operations with cattle	No.	12	45	-	Texas	148	-
Operations with hogs	No.	7	15	-	Iowa	43	-
Operations with sheep	No.	3	7.4	-	Iowa	10.5	-
Fertilizer consumption 5/ (July 1984-June 1985)	Ton	9	1,839	-	Illinois	4,127	-

1/Data reported for 1985 unless noted otherwise in stub heading. 2/Thousands unless noted otherwise in stub. 3/Not available at time of publication. 4/Includes small quantity of processing vegetables. 5/Preliminary. 6/No significant production. **7/Rank among the States.**

INDEX NUMBERS OF CROP AND LIVESTOCK PRODUCTION, OHIO, 1976-85 1/

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Crops										
Feed grains	104	100	100	109	115	94	119	59	119	134
Food grains	88	100	58	88	93	97	71	81	67	81
Soybeans	78	100	105	119	111	81	109	86	113	132
Other field crops	112	100	93	69	83	85	99	71	98	82
Seed crops and hay	100	100	109	102	101	101	99	91	107	129
Vegetables, all	115	100	100	88	73	76	96	107	101	121
Fruit	169	100	180	156	240	138	196	151	171	179
Total crops	94	100	100	109	110	90	110	76	111	127
Livestock & Livestock Products:										
Meat animals	110	100	93	111	101	99	102	113	108	108
Poultry & poultry products	101	100	113	112	111	115	128	134	153	158
Milk	100	100	96	96	97	98	102	107	103	109
Wool	105	100	85	78	70	70	66	59	57	61
Total livestock & products	104	100	97	105	100	100	105	113	111	114
Total, all commodities	98	100	99	108	106	94	108	89	111	123

1/Base year 1977.

1985 CROP AND WEATHER REVIEW

OHIO FIELD CROP PRODUCTION

Many factors meshed together to produce the largest total crop production in Ohio history, according to the Ohio Agricultural Statistics Service. Weather conditions were near ideal throughout the state for fieldwork and crop growth for most of the season. Rainfall was adequate during the germinating, pollinating and grain filling stages which are critical to excellent yields. The overall outcome was almost too good to believe in terms of crop yields and production for almost all of Ohio's crops. Corn, soybean and wheat yields for 1985 were all well above the previous record highs.

Even though the bountiful Ohio and U.S. crop output depressed prices, Ohio's total value of crop production increased from a year ago for the major crops with the exception of hay. The preliminary value for 1985 principal crops at $2.7 billion was up 3 percent from a year ago and 21 percent above 1983, the year of USDA's PIK acreage reduction program. Lower prices for virtually every commodity held the increase in field crop value over 1984 to only 3 percent. The index for total crop production with 1977 as the base period, was 127 percent, up 16 percentage points from last year's record!

Planting of winter grains were hindered by an early 1984 fall and frequent rains. The amount of acres planted was reduced because of wet field conditions but fortunately the seeded acreage was well established before the harsh winter developed. Ohio's winter grains lay well protected under a mantel of snow through the worst winter storms of 1984-85. Fairly open spring weather allowed soils to dry and turf to firm. The ground supported fertilizing equipment and top dressing took place in March without a hitch. Also the firm and slightly packed fields shed heavy rains in March and early April, and very little water stood in the fields during the spring.

A cool, wet spring early in April limited field preparation for spring sown crops until the third week of the month when a turnabout in the weather brought mid-summer temperatures to the Buckeye state and substantial drilling occurred the following 30 days. By June 1 all fields were receiving welcomed showers throughout the state. Small grains greatly benefitted from the extremely cool days and nights in June and July.

The winter dormancy, spring growth, kernel filling stage, and summer harvest conditions were ideal for wheat. These factors produced a 62 bushel yield, up an incredible 13 bushels from the previous record of 49 set in 1980 and again in 1983. Ohio's wheat yield was better than any non-irrigated State and 9 bushels higher than our neighboring state of Indiana. The value of the 1985 wheat crop at $176.7 million was up 10 percent although price per bushel dropped 31 cents.

Oats benefitted more than any other crop from the cool spring and summer temperatures. Harvest was completed a week earlier than normal, under ideal conditions. The 85 bushel yield was 15 bushels higher than the previous record of 70 set in 1979. Oregon was the only State which produced a higher yielding oat crop than Ohio. Three Ohio counties, Allen, Putnam and Van Wert, averaged 100 bushels per acre.

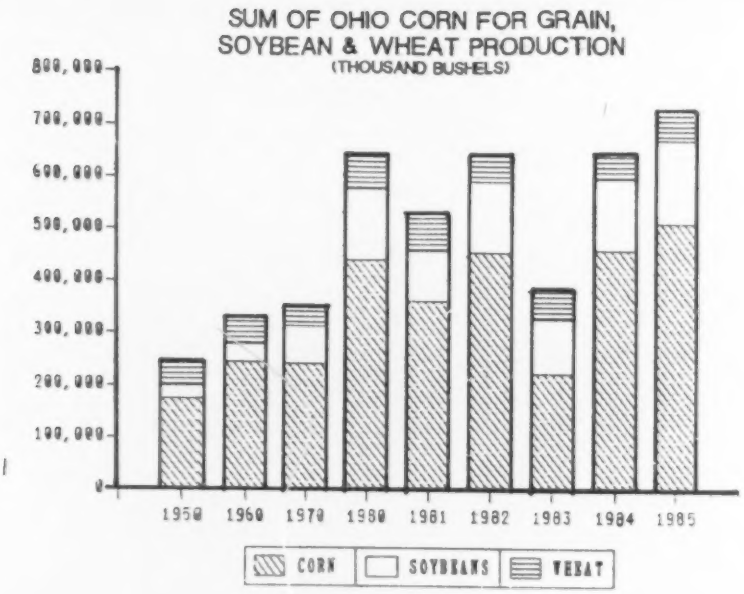
Ideal weather conditions which began in mid April prevailed throughout the growing season for row crops. Planting progressed and developed at a rapid pace and finished early. Very little stress occurred during germination, emergence, pollination, and the filling periods. Also a rapid dry down period occured for both corn and soybeans. September was the third driest September in Ohio since 1900. However, one of the wettest Novembers in Ohio's weather history delayed the finishing of the row crop harvest throughout Ohio.

Ohio corn production totaled 511.8 million bushels, up 11 percent from 1984 and double the 1983 total. The PIK program and a summer drought greatly reduced 1983 production. The average yield of 127 bushels per acre was a record high. Darke county was Ohio's leading producer with nearly 16 million bushels harvested. The value of corn for grain totaled 1.25 billion dollars, a record high value for any Ohio commodity.

Buckeye farmers produced 160.6 million bushels of soybeans from 3,870,000 acres giving the State a record yield of 41.5 bushels. Darke county farmers also produced the most soybeans, but Madison growers had the highest yield, a 46.3 bushel average. The average annual price dropped from $7.91 in 1983 to just $5.15 in 1985.

Ohio hay acreage increased 100,000 from 1984 and harvest conditions were perfect. The yield of 3.17 tons per acre was a record high. The value of Ohio's hay at $271 million makes it the third most valuable crop following corn and soybeans.

Tobacco production totaled 16,946,000 pounds for a value $25,733,000. Both acreage harvested and yield per acre were below 1984. Burley tobacco makes up nearly 95 percent of the total tobacco value.



OHIO VEGETABLE PRODUCTION

Vegetable production in Ohio during 1985 reflected a bountiful year as producers were blessed with cool summer temperatures and timely rains. Production of fresh market and processing vegetables, including strawberries, totaled 12.1 million hundredweight (cwt) in 1985. This is 7 percent more than a year earlier. Over three-fourths of the Ohio vegetable tonnage is processed. All vegetable crops in the estimating program showed production increases from 1984 to 1985. These larger outputs were harvested from the same or more acreage, with higher yields for each crop except celery which had a slightly lower yield, and onions with lower acreage. The preponderance of increased output came from tomatoes for processing. Fresh market tomato production was up 216 percent on the strength of larger green pack production and processing tomato tonnage increased 4 percent. Fresh market sweet corn and cucumbers for pickle production also increased 5 percent and 7 percent, respectively.

Farm value of all vegetables and strawberry production in 1985 totaled $84.5 million, an 8 percent increase from a year earlier. The fresh market values advanced 16 percent and the processing value increased 1 percent. Farm value increased for most crops because of larger volume rather than advances in the price per unit from a year earlier. Celery, lettuce, strawberries and cucumbers earned higher prices, but these crops accounted for only 14 percent of this 1985 total volume.

The popularity of seeding processing tomato acreage declined 2 points to 11 percent of total acreage. In 1983, seeded acreage was 22 percent of total and was a record high of 31 percent in 1980. Mechanical harvesting moved up 4 points to 76 percent of total acreage-- the highest percentage ever. Twin row management was utilized on one-half of the 1985 processing tomato acreage. The four top producing counties of processing tomatoes were unchanged from last year with Sandusky in the lead, followed by Putnam, Wood and Henry. Fulton moved into fifth place in 1985, replacing Ottawa. These top 5 counties produced 61 percent of the 1985 crop and 59 percent in 1984.

Ohio's potato production in 1985 was harvested from the third smallest acreage of record -- 10,400 acres, exceeding only 1980, 1981 and 1982. Yields were a record high level in 1985, averaging 270 cwt, up 7 cwt from last year. Potato production advanced 2 percent from 1984 to 2.8 million cwt the largest crop since 1976 when 3.3 million cwt were produced. Projected farm value of the 1985 crop is $12.5 million down about 19 percent.

OHIO FRUIT PRODUCTION

Ohio apple producers had an excellent crop in 1985 while peach and grape producers had reduced crops due to an early season frost and freeze damage.

Apple production in Ohio during 1985 totaled 145 million pounds, an increase of 7 percent from 1984 and 45 percent more than 1983 output. The season average price for apples (fresh & processing) projected at 13.9 cents per pound is down 2.2 cents from 1984 reflecting (mostly) much lower prices for the processing segment. These lower prices dropped the value of utilized production by $1.6 million to $20.1 million. The utilized production value reached the $20.0 million level in 1980 and has remained above that level since, except for 1983.

Severe winter damage followed by spring frost and freeze reduced Ohio's peach output in both 1984 and 1985 to less than a commercial crop; estimates of commercial production were not set in either year, 1984-85.

Grape production in 1985 dropped to the third lowest on record for Ohio. The 7,000 ton output in 1985 exceeded only record lows of 6,900 tons in 1938 and 4,900 ton recorded in 1945. Heavy frost on May 8th in the north central and northeastern counties adjoining Lake Erie took a heavy toll in these principal producing areas in the state. The average price received for the 1985 crop is $127.00 per ton: the lowest since 1967 when the price was $123.00 per ton.

ANNUAL SUMMARY: CROP PRODUCTION AND VALUE
OHIO 1983-1985, U.S. 1985

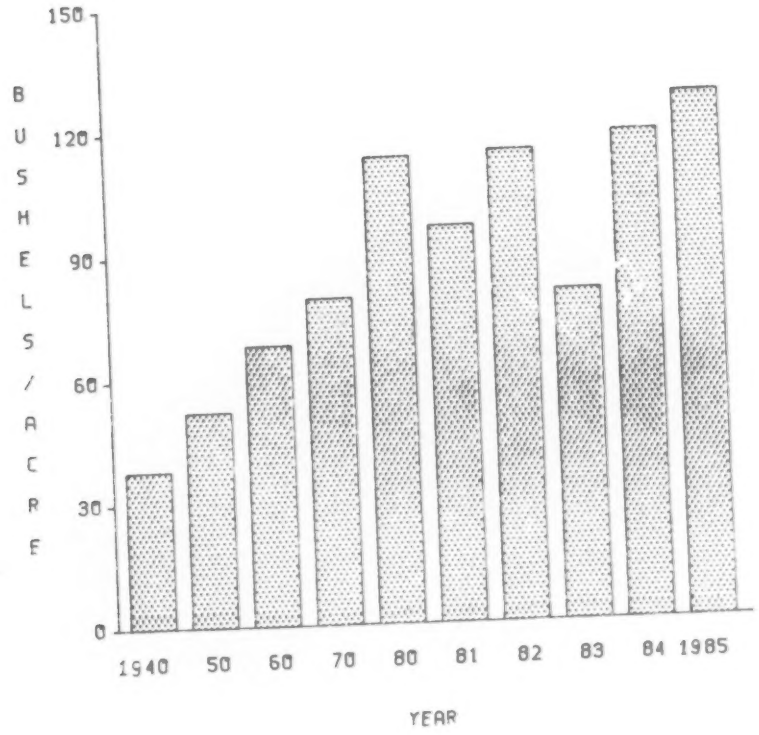
Crop	Ohio				U.S.	Ohio			U.S.	Unit 9/
	Acres planted	Acres harvested				Yield per acre				
	1985	1983	1984	1985	1985	1983	1984	1985	1985	
	Thou.	Thousand acres								
All Corn	4,250									
Corn for Grain		2,800	3,900	4,030	75,134	80.0	118.0	127.0	118.0	Bu.
Corn for Silage		250	220	200	7,151	13.5	16.0	17.0	14.4	Ton
Winter Wheat	1,000	1,200	1,100	950	47,953	49.0	44.0	62.0	38.1	Bu.
All Wheat	1,000	1,200	1,100	950	64,734	49.0	44.0	62.0	37.5	Bu.
Soybeans for Beans	3,900	3,280	3,770	3,870	61,584	32.0	36.5	41.5	34.1	Bu.
Oats	340	240	220	310	8,149	64.0	63.0	85.0	63.6	Bu.
Rye	40	6	5	4	717	35.0	35.0	43.0	28.8	Bu.
Potatoes-Summer	1.2	1.3	1.2	1.1	114.9	180	285	310	245	Cwt.
-Fall	9.5	9.2	9.3	9.3	1,142.9	205	260	265	306	Cwt.
-Total	10.7	10.5	10.5	10.4	1,358.0	202	263	270	298	Cwt.
Sugar Beets	13.1	12.6	10.7	12.7	1,102.5	17.6	18.8	20.3	20.5	Ton
Tobacco-Miami V.(41-44)	-	1.4	1.1	0.82	8.82	1,370	2,000	2,050	1,959	Lb.
-Burley (31)	-	10.5	10.9	7.1	255.1	1,500	2,230	2,150	2,247	Lb.
- Total all types	-	11.9	12.0	7.92	689.02	1,485	2,209	2,140	2,196	Lb.
All Hay	-	1,260	1,350	1,450	60,553	2.57	2.81	3.17	2.46	Ton
Alfalfa	-	460	600	700	25,673	3.40	3.70	4.00	3.32	Ton
All Other Hay	-	800	750	750	34,880	2.10	2.10	2.40	1.83	Ton
Strawberries	1.7	1.9	1.6	1.7	44.1	50	48	54	231	Cwt.
Apples - Commercial 4/	-	-	-	-	-	-	-	-	-	Lb.
Peaches 4/	-	-	-	-	-	-	-	-	-	Lb.
Grapes 4/	-	-	-	-	-	-	-	-	-	Ton
		Acres								
Sweet Corn	16,000	15,000	15,000	15,200	189,000	70	75	78	83	Cwt.
Celery	470	450	400	450	34,080	440	470	460	540	Cwt.
Lettuce	1,000	900	750	900	225,940	180	120	135	280	Cwt.
Onions 5/	500	550	500	490	122,060	350	410	430	365	Cwt.
Tomatoes (fresh)	2,400	1,300	1,400	2,300	122,180	160	190	250	239	Cwt.
Fresh Market 6/	21,470	19,300	18,990	20,340	1,069,110	-	-	-	-	Cwt.
Tomatoes (processing)	16,500	19,000	15,900	15,900	265,500	21.40	24.50	25.47	27.03	Ton
Cucumbers (processing)	4,900	8/	4,800	4,800	115,200	8/	11.73	12.60	6.03	Ton
Processing 7/	21,670	19,100	20,700	20,960	1,391,680	-	-	-	-	Ton

1/Data for the United States, where applicable, include all seasonal groups and are rounded to conserve space.
2/Price per unit for Ohio and U.S. grain and hay crops obtained from Crop Values, January 1986. Revisions available January 1987.
3/Not available at time of publication
4/Utilized production.
5/When computing Ohio crop values, 18,000 cwt., 25,000 cwt., and 21,000 cwt. were shrinkages in 1983, 1984, and 1985. U.S. shrinkage in 1985 was 5,215,000 cwt. Value of crop based on sales to December 1, 1985.
6/Includes processing totals of dual usage crops and crops not published separately.
7/Processing crops price per unit includes all payments to the growers, including the cost of materials and services provided by the contractor to get the commodity to the plant door. Processing vegetable total includes minor crop acreages not published separately.
8/Not estimated.
9/For yield and production.

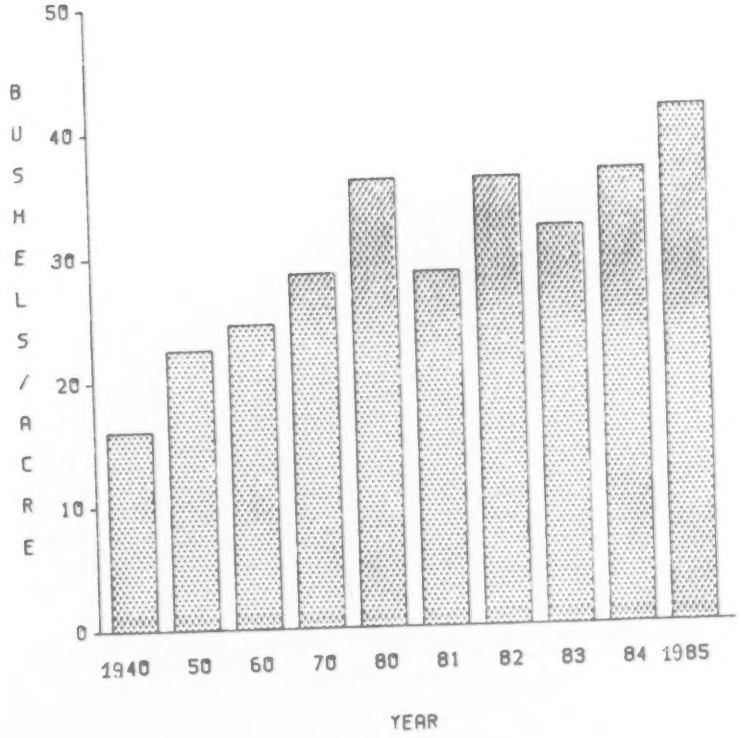
ANNUAL SUMMARY: CROP PRODUCTION AND VALUE
OHIO 1983-1985, U.S. 1985

	Ohio			U.S.	Ohio		U.S.	Ohio		U.S.
	Production				Price per unit 2/			Value of production		
	1983	1984	1985	1985	1984	1985	1985	1984	1985	1985
	Thousands				Dollars			Thousand dollars		
All Corn										
Corn for Grain	224,000	460,200	511,810	8,865,006	2.59	2.45	2.41	1,191,918	1,253,935	21,327,048
Corn for Silage	3,375	3,520	3,400	102,623	-	-	-	-	-	-
Winter Wheat	58,800	48,400	58,900	1,827,195	3.31	3.00	3.09	160,204	176,700	5,646,035
All Wheat	58,800	48,400	58,900	2,424,765	3.31	3.00	3.16	160,204	176,700	7,652,444
Soybeans for Beans	104,960	137,605	160,605	2,098,531	5.84	5.15	5.16	803,613	827,116	10,823,330
Oats	15,360	13,860	26,350	518,626	2.05	1.15	1.25	28,413	30,303	649,834
Rye	210	175	172	20,637	3.50	3.30	2.05	613	568	43,383
Potatoes-summer	234	342	341	28,169	-	-	-	-	-	-
-fall	1,886	2,418	2,465	350,285	-	-	-	-	-	-
-total	2,120	2,760	2,806	404,131	5.60	4.45	3.91	15,385	12,508	1,563,359
Sugar Beets	222	201	258	22,636	23.60	3/	3/	4,744	3/	3/
Tobacco -Miami	1,918	2,200	1,681	17,281	0.90	0.87	0.726	1,980	1,462	12,538
-Burley	15,750	24,307	15,265	573,321	1.89	1.59	1.594	45,940	24,271	914,131
Total all types	17,668	26,507	16,946	1,512,970	1.808	1.519	1.645	47,920	25,733	2,489,369
All Hay	3,244	3,795	4,600	148,959	74.50	59.00	69.10	282,728	271,400	9,706,161
Alfalfa	1,564	2,220	2,800	85,291	-	-	-	-	-	-
All Other Hay	1,680	1,575	1,800	63,668	-	-	-	-	-	-
Strawberries	95	77	92	10,188	59.00	60.00	44.30	4,543	5,520	450,819
Apples	100,000	135,000	145,000	7,722,400	0.161	0.139	0.109	21,738	20,100	838,612
Peaches	7,000	6/	6/	2,047,400	6/	6/	0.151	6/	6/	308,532
Grapes	11.0	11.2	7.0	5,581.8	214.00	127.00	177.00	2,394	1,093	985,756
Sweet Corn	1,050	1,125	1,186	15,746	13.40	12.50	12.70	15,075	14,825	200,399
Celery	198	188	207	18,416	9.22	10.70	10.10	1,733	2,215	185,231
Lettuce	162	90	122	63,163	35.50	35.70	10.60	3,195	4,356	671,662
Onions 5/	193	205	211	44,599	11.50	9.18	8.78	2,070	1,744	345,837
Tomatoes (fresh)	208	266	575	29,213	29.00	20.00	22.50	7,714	11,500	657,564
Fresh market	2,251	2,250	2,641	217,854	-	-	-	30,821	35,659	2,852,518
Tomatoes (processing)	406.6	389.6	405.0	7,177.1	83.10	77.20	66.30	32,372	31,264	475,709
Cucumbers (processing)	8/	56.3	60.5	694.4	185.00	197.00	178.00	10,416	11,915	123,639
Processing 7/	406.7	445.9	466.3	11,791.4	-	-	-	42,788	43,279	1,023,974

CORN YIELD



SOYBEAN YIELD



OHIO CROP RECORDS: ACREAGE, YIELD AND PRODUCTION

Crop	Date series began	Record 1/	Harv. acreage		Yield		Total production		Unit
			Acreage	Year	Yield	Year	Production	Year	
			Thousand				Thousand		
Corn for grain	1919	High	4,030	1985	127.0	1985	511,810	1985	Bu.
		Low	2,537	1961	27.5	1930	75,598	1924	Bu.
Corn for silage	1919	High	285	1981	17.0	1985	4,000	1982	Ton
		Low	106	1935	5.4	1930	823	1933	Ton
Soybeans for beans	1924	High	4,080	1979	41.5	1985	160,605	1985	Bu.
		Low	17	1925	11.5	1926	207	1926	Bu.
Wheat	1866	High	3,209	1899	62.0	1985	72,380	1977	Bu.
		Low	800	1973	6.0	1900	9,000	1866	Bu.
Oats	1866	High	2,374	1928	85.0	1985	92,400	1912	Bu.
		Low	220	1984	20.0	1890	13,200	1984	Bu.
Barley 2/	1866	High	318	1928	54.0	1972	8,427	1928	Bu.
		Low	8	1980	15.0	1933	332	1934	Bu.
Rye	1866	High	200	1913	43.0	1985	2,700	1913	Bu.
		Low	4	1985	10.0	1896	150	1981	Bu.
Popcorn 3/	1935	High	30.0	1945	3550.0	1976	66,740	1976	Lb.
		Low	4.0	1935	1150.0	1936	7,000	1935	Lb.
Alfalfa hay	1919	High	1,052	1955	4.00	1985	2,800	1985	Ton
		Low	93	1920	1.30	1930	188	1919	Ton
Other hay	1964	High	1,080	1968	2.40	1985	2,100	1973	Ton
		Low	750	1985	1.49	1965	1,328	1965	Ton
All hay	1866	High	3,553	1908	3.17	1985	4,898	1916	Ton
		Low	1,260	1983	0.6	1895	1,755	1895	Ton
Red clover seed 3/	1919	High	352.0	1944	95	1978	15,800	1951	Lb.
		Low	10.0	1981	25	1926	700	1981	Lb.
Apples	1934	High					7,886	1937	Bu.
		Low					780	1945	Bu.4/
Peaches	1899	High					3,800	1901	Bu.
		Low					15	1982	Bu.5/
Grapes 6/	1909	High					34.4	1935	Ton
		Low					4.9	1945	Ton
Maple Sirup 3/	1916	High					1,103	1918	Gal.
		Low					35	1973	Gal.
Potatoes - total	1866	High	225.0	1895	270	1985	12,269	1909	Cwt.
		Low	10.2	1981	27	1881	2,118	1981	Cwt.
Sugar beets 7/	1924	High	51.0	1938	21.7	1971	896	1971	Ton
		Low	9.5	1931	5.8	1937	72	1943	Ton
Burley tobacco	1919	High	25.0	1919	2,680	1970	28,350	1982	Lb.
		Low	6.7	1971	715	1935	6,435	1935	Lb.
All tobacco	1866	High	106	1909	2,496	1970	94,575	1918	Lb.
		Low	8.35	1970	620	1875	12,450	1874	Lb.

1/In case of ties, most recent year designated as record year. 2/Estimates discontinued in 1981. 3/Estimates discontinued in 1982. 4/ 42 lbs. 5/ 48 lbs. 6/Utilized production. 7/No acres contracted in 1982.

OHIO COUNTY ESTIMATES, 1984-1985
NUMBER OF FARMS, LAND IN FARMS, AVERAGE SIZE OF FARM

County & District	Number of Farms 1984	Number of Farms 1985	Average size of Farm 1984	Average size of Farm 1985	Land in farms 1984	Land in farms 1985
			Acres		Thousand Acres	
Allen	1,190	1,170	169	172	201	201
Defiance	1,070	1,050	202	206	216	216
Fulton	1,290	1,270	176	179	227	227
Hancock	1,310	1,290	225	229	295	295
Henry	1,290	1,270	189	192	244	244
Lucas	580	570	153	154	89	88
Paulding	790	780	290	294	229	229
Putnam	1,600	1,570	181	185	290	290
Van Wert	980	960	257	263	252	252
Williams	1,080	1,070	201	204	217	218
Wood	1,520	1,500	211	213	320	320
District 1	**12,700**	**12,500**	**203**	**206**	**2,580**	**2,580**
Ashland	1,190	1,180	163	164	194	194
Crawford	1,010	1,000	226	228	228	228
Erie	540	530	185	189	100	100
Huron	1,090	1,080	228	231	249	249
Lorain	1,080	1,070	139	139	150	149
Ottawa	660	650	183	186	121	121
Richland	1,170	1,160	164	165	192	191
Sandusky	1,080	1,070	198	200	214	214
Seneca	1,540	1,530	201	203	310	311
Wyandot	840	830	276	281	232	233
District 2	**10,200**	**10,100**	**195**	**197**	**1,990**	**1,990**
Ashtabula	1,350	1,340	141	143	191	191
Columbiana	1,210	1,200	132	133	160	160
Cuyahoga	200	190	40	37	8	7
Geauga	630	620	122	124	77	77
Lake	290	280	66	64	19	18
Mahoning	780	770	115	117	90	90
Medina	1,240	1,230	106	107	132	132
Portage	980	980	119	119	117	117
Stark	1,460	1,450	113	114	165	166
Summit	320	320	63	63	20	20
Trumbull	1,100	1,090	111	112	122	122
Wayne	2,040	2,030	137	138	279	280
District 3	**11,600**	**11,500**	**119**	**120**	**1,380**	**1,380**
Auglaize	1,270	1,250	177	180	225	225
Champaign	1,120	1,100	213	216	238	238
Clark	920	900	216	220	199	198
Darke	2,350	2,310	149	152	351	352
Hardin	1,230	1,210	220	224	271	271
Logan	1,100	1,090	211	213	232	232
Mercer	1,610	1,580	174	177	280	280
Miami	1,260	1,240	162	165	204	204
Shelby	1,240	1,220	185	189	230	230
District 4	**12,100**	**11,900**	**184**	**187**	**2,230**	**2,230**
Delaware	1,030	1,020	189	191	195	195
Fairfield	1,250	1,250	184	184	230	230
Fayette	700	690	349	354	244	244
Franklin	740	740	192	191	142	141
Knox	1,370	1,360	169	171	231	232
Licking	1,540	1,530	174	175	268	268
Madison	790	780	354	359	280	280
Marion	860	850	262	265	225	225
Morrow	1,000	990	175	177	175	175
Pickaway	860	850	341	354	293	293
Ross	930	920	286	289	266	266
Union	1,130	1,120	222	224	251	251
District 5	**12,200**	**12,100**	**230**	**231**	**2,800**	**2,800**

OHIO COUNTY ESTIMATES, 1984-1985
NUMBER OF FARMS, LAND IN FARMS, AVERAGE SIZE OF FARM

County & District	Number of Farms 1984	Number of Farms 1985	Average size of Farm 1984	Average size of Farm 1985	Land in farms 1984	Land in farms 1985
			Acres		Thousand Acres	
Belmont	870	860	157	159	137	137
Carroll	870	860	149	151	130	130
Coshocton	1,020	1,000	194	198	198	198
Harrison	590	580	208	212	123	123
Holmes	1,630	1,610	122	124	199	199
Jefferson	560	550	139	142	78	78
Tuscarawas	1,160	1,140	142	145	165	165
District 6	**6,700**	**6,600**	**154**	**156**	**1,030**	**1,030**
Butler	1,150	1,130	147	150	169	169
Clermont	1,120	1,110	106	107	119	119
Clinton	1,030	1,020	224	227	231	232
Greene	1,050	1,040	189	190	198	198
Hamilton	290	280	107	107	31	30
Montgomery	1,120	1,100	112	113	125	124
Preble	1,370	1,360	158	160	217	218
Warren	1,070	1,060	150	151	160	160
District 7	**8,200**	**8,100**	**152**	**154**	**1,250**	**1,250**
Adams	1,590	1,590	133	133	212	212
Brown	1,890	1,890	120	120	227	227
Gallia	860	860	148	148	127	127
Highland	1,600	1,600	164	164	263	263
Jackson	500	500	162	162	81	81
Lawrence	540	540	143	143	77	77
Pike	600	600	185	185	111	111
Scioto	720	720	142	142	102	102
District 8	**8,300**	**8,300**	**145**	**145**	**1,200**	**1,200**
Athens	630	620	173	176	109	109
Guernsey	960	960	159	159	153	153
Hocking	470	460	130	133	61	61
Meigs	570	560	182	186	104	104
Monroe	800	790	171	173	137	137
Morgan	700	690	171	174	120	120
Muskingum	1,230	1,220	177	179	218	218
Noble	680	670	176	179	120	120
Perry	720	710	143	145	103	103
Vinton	220	210	236	248	52	52
Washington	1,020	1,010	160	161	163	163
District 9	**8,000**	**7,900**	**168**	**170**	**1,340**	**1,340**
STATE	**90,000**	**89,000**	**176**	**178**	**15,800**	**15,800**

NUMBER OF FARMS, LAND IN FARMS, AND AVERAGE SIZE FARM, OHIO AND UNITED STATES, 1979-85

Year	Number of farms		Land in farms		Average size farm	
	Ohio	U.S.	Ohio	U.S.	Ohio	U.S.
			Thousand acres		Acres	
1979	96,000	2,432,300	16,300	1,042,015	170	428
1980	95,000	2,432,510	16,200	1,038,885	171	427
1981	94,000	2,433,920	16,100	1,034,190	171	425
1982	93,000	2,400,550	16,000	1,027,795	172	428
1983	92,000	2,370,200	15,900	1,024,195	173	432
1984	90,000	2,328,400	15,800	1,019,378	176	438
1985	**89,000**	**2,284,630**	**15,800**	**1,015,583**	**178**	**445**

Note: A farm is defined as a place with annual sales of agricultural commodities of $1,000 or more.

OHIO COUNTY ESTIMATES, 1984-85
CORN FOR GRAIN: ACRES, YIELD AND PRODUCTION

County & District	Acreage harvested		Yield		Production	
	1984	1985	1984	1985	1984	1985
	Acres		Bu. per acre		Bushels	
Allen	60,000	61,800	127.0	128.7	7,620,000	7,956,100
Defiance	36,000	37,400	105.0	107.1	3,780,000	4,006,300
Fulton	93,000	92,600	129.0	132.7	11,997,000	12,285,300
Hancock	79,000	82,800	124.0	136.6	9,796,000	11,310,600
Henry	74,000	74,800	133.0	137.6	9,842,000	10,291,300
Lucas	28,000	29,900	132.0	142.5	3,696,000	4,260,700
Paulding	52,000	53,100	113.0	119.9	5,876,000	6,366,400
Putnam	69,800	68,400	119.0	128.7	8,306,200	8,805,800
Van Wert	79,800	80,300	133.1	131.7	10,621,400	10,574,500
Williams	61,000	58,600	110.0	116.0	6,710,000	6,795,500
Wood	98,000	105,400	126.0	134.6	12,348,000	14,190,700
DISTRICT 10	**730,600**	**745,100**	**124.0**	**130.0**	**90,592,600**	**96,843,200**
Ashland	48,000	50,400	108.0	113.9	5,184,000	5,738,900
Crawford	62,000	64,000	119.0	139.0	7,378,000	8,896,400
Erie	34,000	34,500	125.0	129.1	4,250,000	4,455,600
Huron	63,000	65,000	116.0	129.1	7,308,000	8,394,600
Lorain	28,000	30,700	106.0	123.2	2,968,000	3,783,200
Ottawa	21,000	21,700	110.0	122.2	2,310,000	2,652,800
Richland	46,000	47,700	105.0	116.3	4,830,000	5,549,000
Sandusky	66,900	69,400	125.0	136.0	8,362,500	9,441,800
Seneca	79,000	80,800	114.9	128.2	9,077,100	10,355,500
Wyandot	53,000	57,900	120.0	135.1	6,360,000	7,820,200
DISTRICT 20	**500,900**	**522,100**	**115.8**	**128.5**	**58,027,600**	**67,088,000**
Ashtabula	25,000	23,500	104.0	119.2	2,600,000	2,800,500
Columbiana	33,700	30,100	106.0	111.2	3,572,200	3,347,900
Cuyahoga	*	*	*	*	*	*
Geauga	11,000	11,400	100.0	100.3	1,100,000	1,143,400
Lake	*	*	*	*	*	*
Mahoning	22,000	19,200	103.0	105.3	2,266,000	2,021,100
Medina	28,000	29,500	106.0	119.2	2,968,000	3,515,500
Portage	27,000	28,400	101.0	109.2	2,727,000	3,102,400
Stark	41,700	42,500	116.0	114.2	4,837,200	4,853,700
Summit	3,800	3,800	105.0	106.3	399,000	403,800
Trumbull	17,000	17,600	106.0	121.2	1,802,000	2,132,300
Wayne	75,000	77,600	116.9	121.2	8,767,500	9,401,700
Other Counties	3,200	2,900	90.0	97.8	288,000	283,600
DISTRICT 30	**287,400**	**286,500**	**109.0**	**115.2**	**31,326,900**	**33,005,900**
Auglaize	59,000	60,100	131.0	128.7	7,729,000	7,734,600
Champaign	92,000	90,900	125.0	136.6	11,500,000	12,418,300
Clark	79,000	77,900	125.0	128.7	9,875,000	10,025,300
Darke	113,000	114,800	120.0	137.6	13,560,000	15,797,000
Hardin	78,000	81,500	130.0	128.7	10,140,000	10,488,600
Logan	72,000	70,900	116.0	128.7	8,352,000	9,124,500
Mercer	78,000	76,500	133.3	130.7	10,397,400	9,996,600
Miami	65,000	67,300	123.0	131.7	7,995,000	8,861,000
Shelby	54,000	56,600	122.0	131.7	6,588,000	7,452,200
DISTRICT 40	**690,000**	**696,500**	**124.8**	**131.9**	**86,136,400**	**91,898,100**
Delaware	56,000	56,700	106.0	127.3	5,936,000	7,216,600
Fairfield	80,000	82,700	103.0	130.2	8,240,000	10,768,700
Fayette	81,900	83,200	133.7	137.1	10,950,000	11,404,000
Franklin	42,000	43,100	100.0	128.3	4,200,000	5,527,800
Knox	59,000	60,200	112.0	119.4	6,608,000	7,190,600
Licking	63,000	66,700	100.0	123.4	6,300,000	8,228,200
Madison	89,000	92,000	124.0	137.1	11,036,000	12,610,200
Marion	73,000	77,100	117.0	127.3	8,541,000	9,813,100
Morrow	46,000	47,900	105.0	119.4	4,830,000	5,721,400
Pickaway	107,000	115,300	108.0	124.3	11,556,000	14,336,400
Ross	71,000	72,500	109.0	118.5	7,739,000	8,588,800
Union	77,000	73,900	112.0	131.2	8,624,000	9,695,200
DISTRICT 50	**844,900**	**871,300**	**111.9**	**127.5**	**94,560,000**	**111,101,000**

OHIO COUNTY ESTIMATES, 1984-85
CORN FOR GRAIN: ACRES, YIELD AND PRODUCTION

County & District	Acreage harvested 1984	Acreage harvested 1985	Yield 1984	Yield 1985	Production 1984	Production 1985
	Acres		Bu. per acre		Bushels	
Belmont	4,500	4,900	100.0	102.0	450,000	499,700
Carroll	15,000	17,300	106.0	101.5	1,590,000	1,755,600
Coshocton	45,000	45,700	123.1	119.7	5,539,500	5,472,400
Harrison	5,500	5,100	101.9	102.5	560,500	522,700
Holmes	28,800	30,500	116.0	113.7	3,340,800	3,466,600
Jefferson	4,500	5,100	100.0	100.5	450,000	512,400
Tuscarawas	32,000	31,000	114.0	106.6	3,648,000	3,303,200
DISTRICT 60	**135,300**	**139,600**	**115.1**	**111.3**	**16,578,800**	**15,532,600**
Butler	47,000	51,400	115.7	122.8	5,437,900	6,312,600
Clermont	15,000	17,500	115.0	114.8	1,725,000	2,009,400
Clinton	96,900	104,900	127.0	133.8	12,306,300	14,035,200
Greene	82,900	88,800	130.6	136.8	10,826,700	12,147,100
Hamilton	5,000	4,900	115.0	119.8	575,000	587,100
Montgomery	34,000	39,000	117.0	131.8	3,978,000	5,140,200
Preble	91,000	98,500	127.0	139.8	11,557,000	13,769,000
Warren	48,000	52,800	117.0	129.8	5,616,000	6,853,500
DISTRICT 70	**419,800**	**457,800**	**123.9**	**132.9**	**52,021,900**	**60,854,100**
Adams	25,000	25,400	103.0	97.0	2,575,000	2,462,600
Brown	39,800	41,900	116.0	113.3	4,616,800	4,746,400
Gallia	6,000	5,500	103.0	103.1	618,000	566,900
Highland	75,000	80,000	115.0	116.3	8,625,000	9,307,300
Jackson	8,000	8,600	117.2	120.9	937,600	1,040,100
Lawrence	2,000	2,500	116.7	102.0	233,400	255,100
Pike	17,900	18,700	105.0	113.3	1,879,500	2,118,300
Scioto	12,900	13,500	109.0	112.3	1,406,100	1,515,500
DISTRICT 80	**186,600**	**196,100**	**112.0**	**112.2**	**20,891,400**	**22,012,200**
Athens	7,500	7,200	86.0	95.1	645,000	685,000
Guernsey	6,000	6,200	113.0	121.5	678,000	753,000
Hocking	7,000	8,300	100.0	111.3	700,000	924,000
Meigs	7,900	7,700	87.1	95.1	688,100	732,500
Monroe	2,300	2,900	95.8	108.3	220,300	314,000
Morgan	6,900	6,500	103.0	110.3	710,700	717,100
Muskingum	27,000	30,400	112.2	124.5	3,029,400	3,784,400
Noble	2,800	2,900	100.0	101.2	280,000	293,500
Perry	25,500	28,900	110.0	127.5	2,805,000	3,685,500
Vinton	2,600	2,700	111.9	121.4	290,900	327,900
Washington	9,000	11,300	113.0	111.3	1,017,000	1,258,000
DISTRICT 90	**104,500**	**116,000**	**105.9**	**117.2**	**11,064,400**	**13,474,900**
STATE	**3,900,000**	**4,030,000**	**118.0**	**127.0**	**460,200,000**	**511,810,000**

* Counties with less than 1,000 acres not published. Counties with more than 1,000 acres are also not published, if necessary, to preserve the confidentiality of counties with less than 1,000 acres.

CORN SILAGE: HARVESTED ACREAGE, YIELD AND PRODUCTION, BY DISTRICTS, OHIO 1984-85

District	Harvested acres 1984	Harvested acres 1985	Yield 1984	Yield 1985	Production 1984	Production 1985
	Acres		Tons per acre		Thousand tons	
1	26,000	25,100	15.5	17.4	403.0	437.5
2	27,000	21,200	15.0	15.2	405.0	322.0
3	48,000	43,100	16.0	16.2	768.0	696.7
4	37,000	36,100	17.0	18.2	629.0	657.4
5	31,000	29,300	15.0	17.5	465.0	513.6
6	13,000	13,800	16.0	16.1	208.0	221.7
7	17,000	13,400	18.0	18.0	306.0	241.4
8	9,000	8,100	16.0	17.5	144.0	142.0
9	12,000	9,900	16.0	16.9	192.0	167.7
State	220,000	200,000	16.0	17.0	3,520.0	3,400.0

OHIO COUNTY ESTIMATES, 1984-85
SOYBEANS: ACREAGE, YIELD AND PRODUCTION

County & District	Acreage harvested		Yield		Production	
	1984	1985	1984	1985	1984	1985
	Acres		Bu. per acre		Bushels	
Allen	74,500	78,300	39.0	41.6	2,905,500	3,255,600
Defiance	90,500	92,200	32.0	35.3	2,896,000	3,250,200
Fulton	79,700	83,600	41.9	41.7	3,339,400	3,484,400
Hancock	119,500	123,000	38.0	43.5	4,541,000	5,348,900
Henry	97,500	95,300	41.0	42.9	3,997,500	4,086,800
Lucas	37,800	37,700	38.0	40.2	1,436,400	1,514,500
Paulding	95,500	100,300	33.0	39.1	3,151,500	3,918,500
Putnam	119,500	121,900	36.0	42.2	4,302,000	5,141,900
Van Wert	102,500	104,500	40.0	43.2	4,100,000	4,512,800
Williams	68,500	70,600	35.3	37.6	2,418,100	2,651,800
Wood	119,500	121,700	38.0	42.7	4,541,000	5,194,500
DISTRICT 10	**1,005,000**	**1,029,100**	**37.4**	**41.2**	**37,628,400**	**42,359,900**
Ashland	19,800	20,900	34.0	39.1	673,200	816,300
Crawford	85,500	85,800	38.0	44.0	3,249,000	3,772,300
Erie	28,700	29,200	37.0	41.7	1,061,900	1,216,500
Huron	83,500	85,600	36.0	39.3	3,006,000	3,360,600
Lorain	50,200	51,400	33.0	37.4	1,656,600	1,920,100
Ottawa	59,500	60,800	32.0	40.6	1,904,000	2,466,100
Richland	33,400	33,300	35.0	36.1	1,169,000	1,200,700
Sandusky	86,500	89,100	38.0	42.6	3,287,000	3,792,400
Seneca	115,500	122,100	36.0	41.4	4,158,000	5,050,300
Wyandot	92,400	92,900	37.0	43.4	3,418,800	4,028,600
DISTRICT 20	**656,000**	**671,100**	**36.0**	**41.2**	**23,583,500**	**27,623,900**
Ashtabula	11,400	11,200	33.0	38.9	376,200	435,200
Columbiana	1,700	1,800	35.3	34.2	60,000	61,600
Cuyahoga	*	*	*	*	*	*
Geauga	*	*	*	*	*	*
Lake	*	*	*	*	*	*
Mahoning	3,900	3,800	33.6	37.6	131,000	142,700
Medina	18,300	20,000	35.0	38.0	640,500	760,900
Portage	10,900	11,000	33.9	34.4	369,500	378,700
Stark	8,900	9,100	36.0	35.2	320,400	320,600
Summit	1,500	1,600	37.3	34.8	56,000	55,600
Trumbull	12,900	12,900	35.0	39.3	451,500	506,400
Wayne	13,400	14,500	37.5	42.3	502,500	613,000
Other Counties	2,100	1,900	32.4	39.4	68,000	74,900
DISTRICT 30	**85,000**	**87,800**	**35.0**	**38.2**	**2,975,600**	**3,349,600**
Auglaize	70,800	74,400	38.0	41.1	2,690,400	3,057,400
Champaign	62,600	61,500	39.5	45.7	2,472,700	2,808,800
Clark	62,700	62,200	38.5	42.8	2,414,000	2,661,300
Darke	139,300	139,600	36.0	45.3	5,014,800	6,320,200
Hardin	101,700	102,700	38.0	39.9	3,864,600	4,097,800
Logan	67,800	68,000	37.0	40.0	2,508,600	2,720,000
Mercer	90,700	91,600	40.0	42.8	3,628,000	3,919,200
Miami	66,700	67,400	39.1	45.8	2,608,000	3,084,900
Shelby	74,700	78,700	37.5	45.0	2,801,300	3,539,500
DISTRICT 40	**737,000**	**746,100**	**38.0**	**43.2**	**28,002,400**	**32,209,100**
Delaware	66,800	67,800	33.0	42.7	2,204,400	2,896,800
Fairfield	29,800	31,600	32.0	42.6	953,600	1,346,900
Fayette	87,300	91,100	39.0	42.7	3,404,700	3,892,300
Franklin	53,900	54,600	34.0	42.1	1,832,600	2,299,900
Knox	22,900	24,200	35.0	39.1	801,500	946,600
Licking	49,600	49,700	35.0	39.1	1,736,000	1,944,000
Madison	108,800	114,200	38.0	46.3	4,134,400	5,291,500
Marion	98,700	98,000	35.4	41.2	3,494,000	4,039,600
Morrow	52,800	53,700	35.0	43.0	1,848,000	2,310,500
Pickaway	90,800	97,300	33.0	41.1	2,996,400	4,001,000
Ross	47,800	47,900	34.0	39.1	1,625,200	1,873,600
Union	103,800	105,300	33.0	41.6	3,425,400	4,382,800
DISTRICT 50	**813,000**	**835,400**	**35.0**	**42.2**	**28,456,200**	**35,225,500**

OHIO COUNTY ESTIMATES, 1984-85
SOYBEANS: ACREAGE, YIELD AND PRODUCTION

County & District	Acreage harvested		Yield		Production	
	1984	1985	1984	1985	1984	1985
	Acres		Bu. per acre		Bushels	
Belmont	*	*	*	*	*	*
Carroll	*	*	*	*	*	*
Coshocton	1,000	1,100	32.0	35.5	32,000	39,000
Harrison	*	1,000	*	24.6	*	24,600
Holmes	2,400	2,300	33.8	42.8	81,100	98,500
Jefferson	*	*	*	*	*	*
Tuscarawas	3,400	3,300	31.5	26.1	107,100	86,100
Other Counties	1,700	1,300	30.6	24.5	52,000	31,900
DISTRICT 60	**8,500**	**9,000**	**32.0**	**31.1**	**272,200**	**280,100**
Butler	27,200	30,700	37.0	39.0	1,006,400	1,197,300
Clermont	27,900	30,300	34.4	34.0	959,800	1,030,200
Clinton	66,400	71,400	37.0	41.8	2,456,800	2,984,400
Greene	48,000	49,900	38.0	45.4	1,824,000	2,265,400
Hamilton	6,400	6,600	38.0	40.0	243,200	264,000
Montgomery	42,800	44,400	36.0	45.5	1,540,800	2,020,100
Preble	63,200	65,600	38.0	46.3	2,401,600	3,037,100
Warren	44,100	46,800	37.0	38.0	1,631,700	1,778,300
DISTRICT 70	**326,000**	**345,700**	**37.0**	**42.2**	**12,064,300**	**14,576,800**
Adams	10,700	12,000	31.8	32.2	340,300	386,100
Brown	45,200	46,900	33.0	32.7	1,491,600	1,532,500
Gallia	*	*	*	*	*	*
Highland	56,900	57,200	34.0	36.2	1,934,600	2,070,300
Jackson	*	1,000	*	34.7	*	34,700
Lawrence	*	*	*	*	*	*
Pike	10,700	11,000	30.0	32.1	321,000	352,800
Scioto	9,200	9,700	32.1	34.2	295,300	331,500
Other Counties	2,300	1,400	32.6	31.1	74,900	43,600
DISTRICT 80	**135,000**	**139,200**	**33.0**	**34.1**	**4,457,700**	**4,751,500**
Athens	*	*	*	*	*	*
Guernsey	*	*	*	*	*	*
Hocking	*	*	*	*	*	*
Meigs	*	*	*	*	*	*
Monroe	*	*	*	*	*	*
Morgan	*	*	*	*	*	*
Muskingum	*	*	*	*	*	*
Noble	*	*	*	*	*	*
Perry	2,100	3,100	27.1	34.8	56,900	108,000
Vinton	*	*	*	*	*	*
Washington	*	*	*	*	*	*
Other Counties	3,400	3,500	31.7	34.5	107,800	120,600
DISTRICT 90	**5,500**	**6,600**	**29.9**	**34.6**	**164,700**	**228,600**
STATE	**3,770,000**	**3,870,000**	**36.5**	**41.5**	**137,605,000**	**160,605,000**

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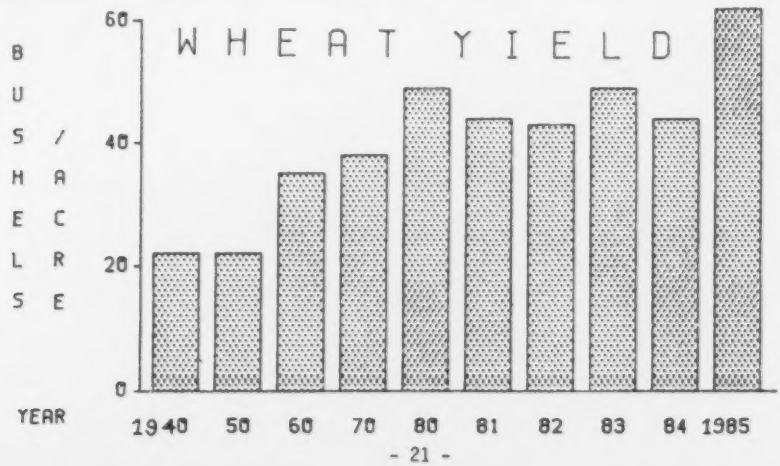
OHIO COUNTY ESTIMATES, 1984-85
ALL WHEAT: ACREAGE, YIELD AND PRODUCTION

County & District	Acreage harvested		Yield		Production	
	1984	1985	1984	1985	1984	1985
	Acres		Bu. per acre		Bushels	
Allen	23,000	20,000	48.0	69.8	1,104,000	1,396,800
Defiance	27,000	22,000	40.5	54.6	1,093,500	1,200,100
Fulton	19,000	12,700	53.1	63.2	1,008,900	802,800
Hancock	48,000	43,000	45.0	66.3	2,160,000	2,849,800
Henry	31,000	29,000	48.0	69.3	1,488,000	2,010,600
Lucas	8,000	5,500	52.0	64.2	416,000	353,300
Paulding	37,000	25,000	42.5	60.2	1,572,500	1,503,900
Putnam	43,000	40,900	42.5	65.3	1,827,500	2,668,900
Van Wert	32,000	28,400	51.0	68.8	1,632,000	1,954,600
Williams	26,000	22,200	52.0	62.2	1,352,000	1,380,700
Wood	52,000	44,000	46.5	66.3	2,418,000	2,916,000
DISTRICT 10	**346,000**	**292,700**	**46.5**	**65.0**	**16,072,400**	**19,037,500**
Ashland	9,500	8,900	39.4	55.7	374,300	495,500
Crawford	25,000	24,600	49.5	62.8	1,237,500	1,543,800
Erie	7,500	7,000	49.5	61.7	371,300	432,200
Huron	22,000	20,200	46.0	59.7	1,012,000	1,206,400
Lorain	9,000	8,200	40.0	57.7	360,000	473,100
Ottawa	12,000	10,600	43.0	61.7	516,000	654,500
Richland	13,000	12,400	44.0	60.7	572,000	753,100
Sandusky	15,000	15,000	49.5	62.8	742,500	941,400
Seneca	32,000	29,300	45.0	63.8	1,440,000	1,868,400
Wyandot	33,000	32,800	44.5	64.3	1,468,500	2,108,200
DISTRICT 20	**178,000**	**169,000**	**45.5**	**62.0**	**8,094,100**	**10,476,600**
Ashtabula	3,500	2,600	36.6	53.8	128,100	140,000
Columbiana	9,000	6,700	36.5	50.8	328,500	340,300
Cuyahoga	*	*	*	*	*	*
Geauga	*	*	*	*	*	*
Lake	*	*	*	*	*	*
Mahoning	4,500	3,700	38.9	53.8	175,100	199,200
Medina	6,000	4,700	38.0	53.8	228,000	253,000
Portage	5,500	5,300	39.5	58.9	217,300	312,200
Stark	11,000	8,700	38.5	55.9	423,500	486,000
Summit	1,000	*	44.0	*	44,000	*
Trumbull	3,000	2,800	33.5	54.9	100,500	153,600
Wayne	18,000	13,600	44.0	55.9	792,000	759,800
Other Counties	1,500	2,000	40.0	52.7	60,000	105,300
DISTRICT 30	**63,000**	**50,100**	**39.6**	**54.9**	**2,497,000**	**2,749,400**
Auglaize	24,000	21,300	46.0	66.4	1,104,000	1,415,000
Champaign	13,000	12,500	43.5	65.5	565,500	818,400
Clark	10,000	9,000	40.0	61.6	400,000	554,600
Darke	30,000	22,300	45.5	66.4	1,365,000	1,481,400
Hardin	32,000	30,700	47.0	65.5	1,504,000	2,009,900
Logan	16,000	12,200	45.0	65.0	720,000	792,900
Mercer	30,000	25,400	48.5	67.4	1,455,000	1,711,800
Miami	17,000	13,700	45.0	66.4	765,000	910,100
Shelby	22,000	17,100	46.5	67.4	1,023,000	1,152,500
DISTRICT 40	**194,000**	**164,200**	**45.9**	**66.1**	**8,901,500**	**10,846,600**
Delaware	13,000	11,300	50.0	69.3	650,000	783,100
Fairfield	16,000	12,800	37.0	59.1	592,000	756,600
Fayette	16,000	12,800	41.0	57.1	656,000	730,500
Franklin	10,000	7,800	35.5	55.0	355,000	429,300
Knox	10,000	8,500	40.0	59.1	400,000	502,400
Licking	13,000	9,900	40.0	55.0	520,000	544,800
Madison	16,000	13,100	35.5	61.2	568,000	801,100
Marion	24,000	22,000	49.0	69.3	1,176,000	1,524,700
Morrow	10,000	9,300	46.0	62.2	460,000	578,200
Pickaway	27,000	21,200	38.0	55.4	1,026,000	1,175,400
Ross	18,000	17,600	38.5	54.0	693,000	950,700
Union	18,000	17,300	50.5	69.3	909,000	1,198,900
DISTRICT 50	**191,000**	**163,600**	**41.9**	**61.0**	**8,005,000**	**9,976,700**

OHIO COUNTY ESTIMATES, 1984-85
ALL WHEAT: ACREAGE, YIELD AND PRODUCTION

County & District	Acreage harvested		Yield		Production	
	1984	1985	1984	1985	1984	1985
	Acres		Bu. per acre		Bushels	
Belmont	*	*	*	*	*	*
Carroll	2,400	2,000	34.0	43.4	81,600	86,700
Coshocton	3,500	3,500	36.5	51.6	127,800	180,700
Harrison	*	*	*	*	*	*
Holmes	6,300	5,300	37.8	48.5	238,100	257,200
Jefferson	*	*	*	*	*	*
Tuscarawas	3,200	3,400	35.0	46.4	112,000	157,900
Other Counties	1,600	1,600	37.6	45.1	60,100	72,200
DISTRICT 60	**17,000**	**15,800**	**36.4**	**47.8**	**619,600**	**754,700**
Butler	8,000	7,200	41.5	53.7	332,000	386,300
Clermont	3,000	*	44.3	*	132,900	*
Clinton	13,000	11,400	39.0	55.7	507,000	634,800
Greene	10,500	9,200	39.0	55.7	409,500	512,300
Hamilton	1,000	*	44.0	*	44,000	*
Montgomery	8,000	6,400	39.0	61.8	312,000	395,200
Preble	13,500	12,500	37.0	62.8	499,500	784,600
Warren	7,000	5,500	46.4	50.6	324,800	278,400
Other Counties		3,300		50.6		167,000
DISTRICT 70	**64,000**	**56,800**	**40.0**	**56.9**	**2,661,700**	**3,158,600**
Adams	5,000	4,500	35.0	41.5	175,000	186,800
Brown	9,000	6,600	33.0	49.8	297,000	328,800
Gallia	*	*	*	*	*	*
Highland	15,000	13,100	36.5	50.3	547,500	659,500
Jackson	*	*	*	*	*	*
Lawrence	*	*	*	*	*	*
Pike	3,000	1,900	39.0	44.1	117,000	83,800
Scioto	1,500	*	38.0	*	57,000	*
Other Counties	1,500	2,100	32.0	42.0	48,000	88,100
DISTRICT 80	**35,000**	**28,200**	**35.6**	**47.8**	**1,241,500**	**1,347,000**
Athens	*	*	*	*	*	*
Guernsey	*	*	*	*	*	*
Hocking	*	1,000	*	42.6	*	42,600
Meigs	*	*	*	*	*	*
Monroe	*	*	*	*	*	*
Morgan	1,500	1,100	35.3	51.2	53,000	56,300
Muskingum	2,500	2,800	33.4	51.2	83,500	143,300
Noble	*	*	*	*	*	*
Perry	3,500	3,200	32.0	54.2	112,000	173,400
Vinton	*	*	*	*	*	*
Washington	2,000	1,400	32.5	51.1	65,000	71,600
Other Counties	2,500	1,400	37.5	47.6	93,700	66,700
DISTRICT 90	**12,000**	**10,900**	**33.9**	**50.8**	**407,200**	**553,900**
STATE	**1,100,000**	**950,000**	**44.0**	**62.0**	**48,400,000**	**58,900,000**

* Counties with less than 1,000 acres not published. Counties with more than 1,000 acres are also not published, if necessary, to preserve the confidentiality of counties with less than 1,000 acres.



OHIO COUNTY ESTIMATES, 1984-85
OATS FOR GRAIN: ACREAGE, YIELD AND PRODUCTION

County & District	Acreage harvested 1984	Acreage harvested 1985	Yield 1984	Yield 1985	Production 1984	Production 1985
	Acres		Bu. per acre		Bushels	
Allen	3,000	3,100	68.2	100.0	204,600	309,900
Defiance	3,800	6,200	57.7	86.0	219,300	533,000
Fulton	*	*	*	*	*	*
Hancock	1,500	2,400	55.3	90.0	83,000	215,900
Henry	2,200	2,700	71.3	87.5	156,900	236,200
Lucas	*	*	*	*	*	*
Paulding	4,000	6,000	78.7	90.0	314,800	539,900
Putnam	3,000	4,300	62.9	100.0	188,700	429,900
Van Wert	3,000	3,600	71.3	100.0	213,900	359,900
Williams	3,100	4,800	71.9	77.0	222,900	369,500
Wood	4,400	6,200	67.1	86.0	295,200	533,100
Other Counties	2,000	3,000	63.0	86.7	126,000	260,000
DISTRICT 10	**30,000**	**42,300**	**67.5**	**89.5**	**2,025,300**	**3,787,300**
Ashland	7,600	9,600	57.7	88.1	438,500	846,200
Crawford	3,000	4,000	64.0	89.1	192,000	356,500
Erie	1,600	2,400	68.2	83.3	109,100	199,900
Huron	5,900	6,900	51.9	81.4	306,200	561,400
Lorain	2,200	3,700	68.2	82.3	150,000	304,600
Ottawa	1,400	1,900	62.9	72.6	88,100	138,000
Richland	7,000	10,200	54.6	84.3	382,200	859,600
Sandusky	2,000	2,600	64.0	85.2	128,000	221,600
Seneca	6,200	9,800	56.5	88.1	350,300	863,800
Wyandot	2,100	3,500	68.2	92.0	143,200	322,100
DISTRICT 20	**39,000**	**54,600**	**58.7**	**85.6**	**2,287,600**	**4,673,700**
Ashtabula	6,500	10,300	56.6	87.3	367,900	899,100
Columbiana	6,800	8,900	60.9	82.3	414,100	732,700
Cuyahoga	*	*	*	*	*	*
Geauga	3,800	5,600	60.7	84.3	230,700	472,200
Lake	*	*	*	*	*	*
Mahoning	3,000	4,500	57.7	83.3	173,100	375,000
Medina	4,700	7,300	52.5	80.3	246,800	586,500
Portage	3,300	4,500	55.6	76.4	183,500	343,700
Stark	8,000	12,500	60.8	82.3	486,400	1,029,100
Summit	1,000	1,600	52.5	77.4	52,500	123,800
Trumbull	5,100	7,200	59.1	82.3	301,400	592,800
Wayne	12,800	18,200	60.8	87.8	778,200	1,597,700
Other Counties	1,000	1,300	52.6	74.4	52,600	96,700
DISTRICT 30	**56,000**	**81,900**	**58.7**	**83.6**	**3,287,200**	**6,849,300**
Auglaize	6,900	8,900	74.5	92.1	514,100	819,300
Champaign	*	2,200	*	87.2	*	191,900
Clark	*	1,100	*	85.3	*	93,800
Darke	4,000	6,200	68.2	91.6	272,800	567,800
Hardin	4,700	6,100	66.1	89.1	310,700	543,800
Logan	2,700	4,200	66.1	89.1	178,500	374,400
Mercer	8,000	10,600	74.0	95.0	592,000	1,006,700
Miami	1,700	2,300	62.9	89.2	106,900	205,100
Shelby	3,700	6,000	68.3	84.3	252,700	505,800
Other Counties	2,300		69.7		160,400	
DISTRICT 40	**34,000**	**47,600**	**70.2**	**90.5**	**2,388,100**	**4,308,600**
Delaware	1,400	2,400	68.2	84.4	95,500	202,500
Fairfield	1,800	2,200	57.7	81.4	103,900	179,000
Fayette	*	1,000	*	84.4	*	84,400
Franklin	*	*	*	*	*	*
Knox	6,000	9,000	58.7	82.4	352,200	741,200
Licking	2,900	3,800	60.4	81.3	175,200	309,100
Madison	1,100	1,300	73.4	95.4	80,700	124,000
Marion	2,500	3,100	77.6	92.4	194,000	286,400
Morrow	3,700	5,900	62.4	80.4	230,900	474,100
Pickaway	*	*	*	*	*	*
Ross	*	*	*	*	*	*
Union	2,400	2,700	61.2	88.4	146,900	238,600
Other Counties	2,200	2,500	59.6	78.3	131,100	195,800
DISTRICT 50	**24,000**	**33,900**	**62.9**	**83.6**	**1,510,400**	**2,835,100**

OHIO COUNTY ESTIMATES, 1984-85
OATS FOR GRAIN: ACREAGE, YIELD AND PRODUCTION

County & District	Acreage harvested		Yield		Production	
	1984	1985	1984	1985	1984	1985
	Acres		Bu. per acre		Bushels	
Belmont	1,200	1,700	65.6	70.0	78,700	119,000
Carroll	3,400	4,900	73.4	78.8	249,600	386,100
Coshocton	1,600	2,600	52.5	73.1	84,000	190,000
Harrison	1,400	2,000	52.5	70.0	73,500	140,000
Holmes	13,100	15,000	67.1	82.9	879,000	1,244,100
Jefferson	1,100	1,400	62.9	71.6	69,200	100,200
Tuscarawas	3,200	4,700	68.2	77.2	218,200	363,000
DISTRICT 60	**25,000**	**32,300**	**66.1**	**78.7**	**1,652,200**	**2,542,400**
Butler	*	*	*	*	*	*
Clermont	*	*	*	*	*	*
Clinton	*	1,400	*	81.4	*	113,900
Greene	1,000	1,500	73.4	91.1	73,400	136,700
Hamilton	*	*	*	*	*	*
Montgomery	*	*	*	*	*	*
Preble	1,100	1,800	57.6	93.8	63,400	168,900
Warren	*	1,000	*	76.0	*	76,000
Other Counties	2,900	1,700	61.6	81.1	178,500	137,900
DISTRICT 70	**5,000**	**7,400**	**63.1**	**85.6**	**315,300**	**633,400**
Adams	*	*	*	*	*	*
Brown	*	*	*	*	*	*
Gallia	*	*	*	*	*	*
Highland	*	1,000	*	72.2	*	72,200
Jackson	*	*	*	*	*	*
Lawrence	*	*	*	*	*	*
Pike	*	*	*	*	*	*
Scioto	*	*	*	*	*	*
Other Counties	2,000	1,700	57.8	70.6	115,600	120,100
DISTRICT 80	**2,000**	**2,700**	**57.8**	**71.2**	**115,600**	**192,300**
Athens	*	*	*	*	*	*
Guernsey	*	*	*	*	*	*
Hocking	*	*	*	*	*	*
Meigs	*	*	*	*	*	*
Monroe	*	*	*	*	*	*
Morgan	*	*	*	*	*	*
Muskingum	1,400	2,500	58.4	73.5	81,800	183,800
Noble	*	*	*	*	*	*
Perry	*	*	*	*	*	*
Vinton	*	*	*	*	*	*
Washington	*	*	*	*	*	*
Other Counties	3,600	4,800	54.6	71.7	196,500	344,100
DISTRICT 90	**5,000**	**7,300**	**55.7**	**72.3**	**278,300**	**527,900**
STATE	**220,000**	**310,000**	**63.0**	**85.0**	**13,860,000**	**26,350,000**

* Counties with less than 1,000 acres not published. Counties with more than 1,000 acres are also not published, if necessary, to preserve the confidentiality of counties with less than 1,000 acres.

OHIO COUNTY ESTIMATES, 1984-85
ALL HAY: ACREAGE, YIELD AND PRODUCTION

County & District	Acreage harvested		Yield		Production	
	1984	1985	1984	1985	1984	1985
	Acres		Tons per acre		Tons	
Allen	7,000	7,400	2.50	3.49	17,500	25,800
Defiance	8,500	8,600	3.11	3.58	26,400	30,800
Fulton	5,000	5,200	4.00	3.94	20,000	20,500
Hancock	8,000	8,400	3.20	4.02	25,600	33,800
Henry	6,500	6,800	4.00	3.76	26,000	25,600
Lucas	2,000	2,000	3.00	3.75	6,000	7,500
Paulding	6,000	6,200	2.00	2.24	12,000	13,900
Putnam	12,000	12,500	3.10	3.31	37,200	41,400
Van Wert	4,000	4,100	3.80	3.59	15,200	14,700
Williams	12,000	11,700	3.50	3.22	42,000	37,700
Wood	7,000	7,200	3.20	3.76	22,400	27,100
DISTRICT 10	78,000	80,100	3.21	3.48	250,300	278,800
Ashland	31,000	33,500	3.50	3.74	108,500	125,300
Crawford	8,500	8,900	3.20	3.90	27,200	34,700
Erie	4,500	5,900	4.00	3.66	18,000	21,600
Huron	8,000	8,600	3.50	3.30	28,000	28,400
Lorain	14,000	14,600	3.30	3.22	46,200	47,000
Ottawa	6,000	7,700	2.50	3.22	15,000	24,800
Richland	21,000	22,700	3.50	3.83	73,500	86,900
Sandusky	6,000	6,400	3.10	3.91	18,600	25,000
Seneca	14,000	13,900	3.10	3.57	43,400	49,600
Wyandot	7,000	8,900	3.90	4.09	27,300	36,400
DISTRICT 20	120,000	131,100	3.38	3.66	405,700	479,700
Ashtabula	36,000	38,200	2.70	3.39	97,200	129,600
Columbiana	31,000	33,200	3.10	3.67	96,100	121,800
Cuyahoga	1,200	1,300	1.92	3.00	2,300	3,900
Geauga	16,000	15,800	2.40	2.84	38,400	44,900
Lake	4,100	3,300	2.00	2.85	8,200	9,400
Mahoning	14,000	14,100	3.20	3.57	44,800	50,400
Medina	23,000	23,100	3.20	3.67	73,600	84,700
Portage	16,000	16,400	3.00	3.49	48,000	57,200
Stark	25,000	26,300	3.30	3.58	82,500	94,100
Summit	4,700	4,700	3.00	2.96	14,100	13,900
Trumbull	22,000	21,900	3.10	3.30	68,200	72,300
Wayne	57,000	58,400	3.90	4.40	222,300	257,100
DISTRICT 30	260,000	266,700	3.18	3.66	795,700	939,300
Auglaize	15,000	14,700	4.00	3.93	60,000	57,800
Champaign	11,000	10,800	3.70	3.66	40,700	39,500
Clark	9,000	8,700	2.70	3.48	24,300	30,300
Darke	15,000	16,400	3.80	4.20	57,000	68,800
Hardin	8,000	7,900	2.90	3.75	23,200	29,600
Logan	15,000	16,000	3.00	3.66	45,000	58,500
Mercer	23,000	24,600	3.80	4.28	87,400	105,400
Miami	7,000	7,700	3.40	3.83	23,800	29,500
Shelby	18,000	19,700	3.30	3.92	59,400	77,300
DISTRICT 40	121,000	126,500	3.48	3.93	420,800	496,700
Delaware	9,000	9,300	2.80	3.60	25,200	33,500
Fairfield	17,000	19,400	2.30	2.79	39,100	54,200
Fayette	8,000	9,100	2.60	3.24	20,800	29,500
Franklin	5,000	5,200	3.10	3.42	15,500	17,800
Knox	26,000	28,000	3.00	3.42	78,000	95,800
Licking	27,000	28,400	2.50	3.15	67,500	89,500
Madison	8,000	8,200	3.10	3.24	24,800	26,600
Marion	5,000	5,800	3.30	3.52	16,500	20,400
Morrow	12,000	12,500	2.70	3.15	32,400	39,400
Pickaway	10,000	10,600	2.20	3.15	22,000	33,400
Ross	18,000	19,900	2.00	2.88	36,000	57,400
Union	11,000	12,600	2.50	3.60	27,500	45,400
DISTRICT 50	156,000	169,000	2.60	3.21	406,300	542,900

OHIO COUNTY ESTIMATES, 1984-85
ALL HAY: ACREAGE, YIELD AND PRODUCTION

County & District	Acreage harvested 1984	Acreage harvested 1985	Yield 1984	Yield 1985	Production 1984	Production 1985
	Acres		Tons per acre		Tons	
Belmont	30,000	33,100	2.20	2.59	66,000	85,800
Carroll	30,000	31,700	2.60	3.31	78,000	104,800
Coshocton	27,000	30,800	2.60	2.77	70,200	85,400
Harrison	20,000	22,300	2.80	2.77	56,000	61,800
Holmes	39,000	44,900	3.50	3.40	136,500	152,600
Jefferson	18,000	18,200	2.80	3.22	50,400	58,600
Tuscarawas	27,000	29,500	2.80	3.04	75,600	89,700
DISTRICT 80	191,000	210,500	2.79	3.03	532,700	638,700
Butler	17,000	20,200	2.40	2.92	40,800	58,900
Clermont	12,000	13,700	2.30	2.56	27,600	35,100
Clinton	8,000	9,500	2.80	2.82	22,400	26,800
Greene	10,000	10,600	3.00	3.18	30,000	33,700
Hamilton	4,000	4,400	2.50	3.09	10,000	13,600
Montgomery	7,000	7,600	3.10	3.36	21,700	25,500
Preble	11,000	12,000	3.00	3.63	33,000	43,500
Warren	11,000	12,400	2.80	3.00	30,800	37,200
DISTRICT 70	80,000	90,400	2.70	3.03	216,300	274,300
Adams	27,000	31,400	2.10	2.48	56,700	77,900
Brown	19,000	21,700	2.10	2.76	39,900	60,000
Gallia	20,000	20,600	1.90	2.29	38,000	47,200
Highland	22,000	25,600	2.30	2.86	50,600	73,300
Jackson	16,000	17,800	2.20	2.39	35,200	42,500
Lawrence	8,000	9,000	1.80	2.10	14,400	18,900
Pike	11,000	12,600	2.00	2.39	22,000	30,100
Scioto	11,000	12,800	2.20	2.77	24,200	35,400
DISTRICT 80	134,000	151,500	2.10	2.64	281,000	385,300
Athens	16,000	18,300	1.70	1.96	27,200	35,800
Guernsey	31,000	33,900	2.30	2.61	71,300	88,400
Hocking	7,000	7,500	2.20	2.24	15,400	16,800
Meigs	16,000	16,600	2.20	2.33	35,200	38,600
Monroe	24,000	24,500	2.00	2.23	48,000	54,700
Morgan	18,000	18,200	2.20	2.42	39,600	44,100
Muskingum	39,000	40,900	2.60	2.89	101,400	118,000
Noble	20,000	20,800	1.70	1.86	34,000	38,700
Perry	15,000	15,700	2.20	2.24	33,000	35,100
Vinton	7,000	8,000	1.70	2.05	11,900	16,400
Washington	27,000	29,800	2.60	2.61	70,200	77,700
DISTRICT 90	220,000	234,200	2.21	2.41	487,200	564,300
STATE	1,350,000	1,480,000	2.81	3.17	3,795,000	4,690,000

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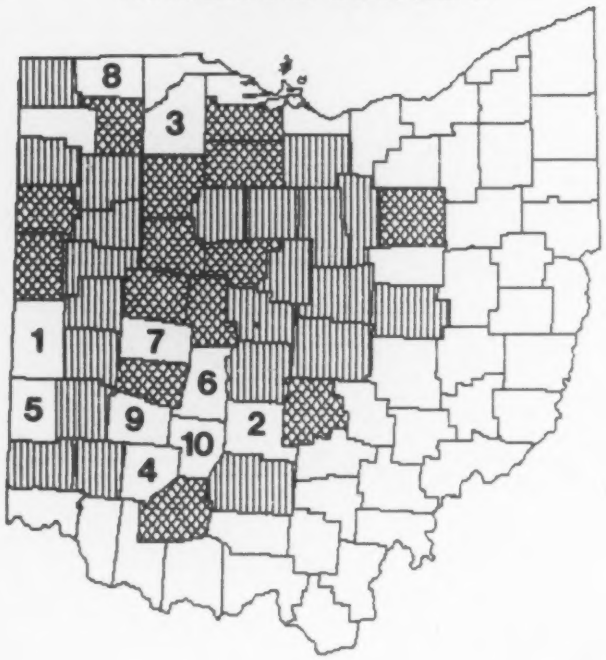
CORN
(THOUSAND BUSHELS)

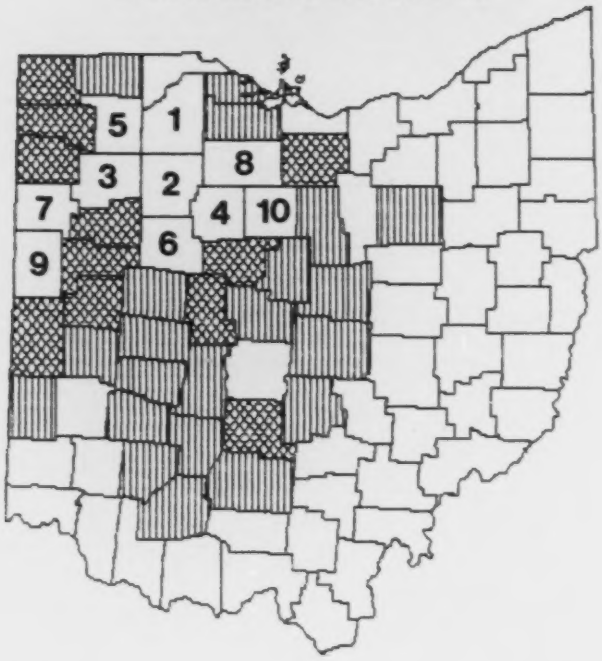


SYMBOL	THOUSAND BUSHELS
1-10	Top Ten Counties 11,400 AND OVER
	9,000 - 11,399
	5,000 - 8,999
	UNDER 5,000

SOYBEANS
(THOUSAND BUSHELS)

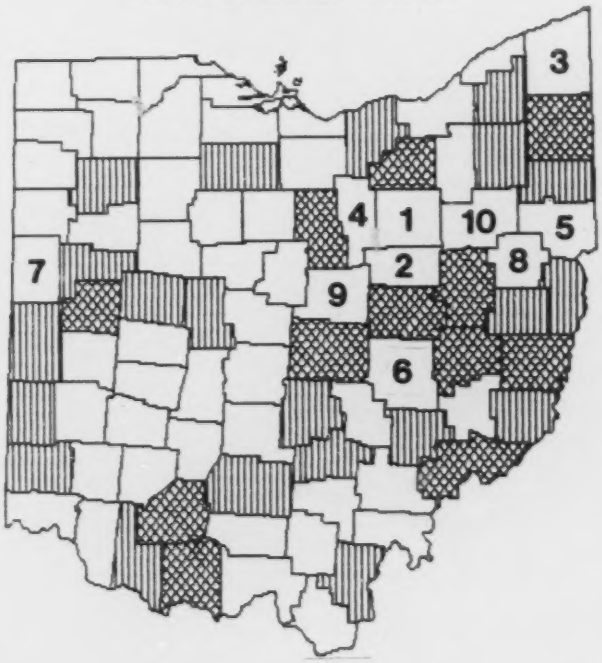
SYMBOL	THOUSAND BUSHELS
1-10	TOP TEN COUNTIES 4,050 AND OVER
	3,000 - 4,049
	1,000 - 2,999
	UNDER 1,000

WHEAT
(THOUSAND BUSHELS)



SYMBOL	THOUSAND BUSHELS
1-10	TOP TEN COUNTIES 1526 AND OVER
	1000 - 1525
	500 - 999
	UNDER 500

HAY
(THOUSAND TONS)



SYMBOL	THOUSAND TONS
1-10	TOP TEN COUNTIES 90 AND OVER
	70 - 89
	40 - 69
	UNDER 40

SUGAR BEETS: ACREAGE, YIELD AND PRODUCTION, OHIO, 1984 and 1985

County	Harvested acres		Yield		Production	
	1984	1985	1984	1985	1984	1985
	Acres		Tons per acre		Tons	
Erie	1/	360	1/	25.3	1/	9,100
Hancock	450	830	17.8	19.4	8,000	16,100
Lucas	250	1/	16.8	1/	4,200	1/
Ottawa	800	790	16.8	20.5	13,400	16,200
Putnam	2,000	1,350	18.0	18.4	36,000	24,900
Sandusky	4,070	5,750	19.3	20.7	78,400	119,100
Seneca	1,860	2,260	19.8	21.3	36,900	48,200
Wood	650	890	14.8	15.6	9,600	13,900
All other 1/	620	470	23.4	22.3	14,500	10,500
State	10,700	12,700	18.8	20.3	201,000	258,000

1/Includes Erie, Henry, Huron, Van Wert, and Wyandot in 1984 and Lucas, Huron and Hardin in 1985.

BURLEY TOBACCO: ACREAGE, YIELD AND PRODUCTION, OHIO, 1984-85

County	Harvested acres		Yield		Production	
	1984	1985	1984	1985	1984	1985
	Acres		Lbs. per acre		Lbs.	
Adams	2,850	1,750	2,265	2,260	6,455,000	3,955,000
Brown	3,200	2,180	2,610	2,280	8,352,000	4,970,000
Clermont	1,330	880	1,955	1,900	2,603,000	1,672,000
Gallia	1,320	800	1,840	2,060	2,430,000	1,648,000
Hamilton	40	30	2,100	2,000	84,000	60,000
Highland	740	500	2,330	2,180	1,725,000	1,090,000
Jackson	90	60	1,645	2,000	148,000	120,000
Lawrence	530	400	1,825	1,800	968,000	720,000
Pike	150	140	2,045	1,950	307,000	273,000
Ross	60	30	2,150	2,000	129,000	60,000
Scioto	500	250	1,870	2,200	935,000	550,000
Other 1/	90	80	1,900	1,840	171,000	147,000
State	10,900	7,100	2,230	2,150	24,307,000	15,265,000

1/Includes Athens, Clinton, Fayette, Greene, Meigs, Monroe, Montgomery, Noble, Vinton and Warren Counties.

FALL POTATOES: PRODUCTION AND TOTAL STOCKS HELD BY GROWERS AND DEALERS, OHIO, 1982-85

Crop year	Production	Stocks December 1	Stocks following year			
			January 1	February 1	March 1	April 1
	Thousand hundredweight					
1982	2,205	800	400	200	70	25
1983	1,886	700	430	270	100	40
1984	2,418	950	650	450	250	100
1985	2,925	825	500	300		

OHIO: PROCESSING TOMATOES, HARVESTED ACREAGE, YIELD AND PRODUCTION, BY COUNTY AND DISTRICT, 1984 AND 1985

County & District	Harvested acreage 1984	Harvested acreage 1985	Yield 1984	Yield 1985	Production 1984	Production 1985
			Tons		Tons	
Defiance	250	230	24.8	25.5	6,200	5,870
Fulton	900	1,070	28.4	26.9	25,600	28,800
Hancock	600	590	24.3	24.2	14,600	14,250
Henry	1,200	1,200	24.2	26.4	29,000	31,700
Lucas	330	350	29.1	23.1	9,600	8,100
Putnam	2,470	2,710	23.4	24.7	57,700	67,000
Williams	720	780	22.8	23.2	16,390	18,100
Wood	2,010	1,840	24.1	26.1	48,500	47,950
Other 1/	450	160	19.8	28.5	8,900	4,560
District 1	8,930	8,930	24.2	25.3	216,490	226,330
Ottawa	1,100	990	25.3	26.9	27,800	26,680
Sandusky	2,700	2,660	26.0	27.0	70,200	71,700
Seneca	1,000	950	26.4	27.5	26,400	26,160
Other 1/	370	360	24.2	24.4	8,960	8,800
District 2	5,170	4,960	25.8	26.9	133,360	133,340
Darke	770	1,080	21.2	20.7	16,300	22,400
Other 1/	1,030	930	22.7	24.6	23,400	22,900
Districts 4, 5, & 8	1,800	2,010	22.1	22.5	39,700	45,300
State	15,900	15,900	24.5	25.5	389,550	404,970

1/All remaining counties in district combined to avoid disclosing individual operations.

PROCESSING TOMATOES: METHOD OF PLANTING AS PERCENT OF HARVESTED ACREAGE, OHIO, 1984-1985

Methods of planting	Harvested acreage 1984	Harvested acreage 1985	% of total 1984	% of total 1985
Seeded	2,100	1,750	13	11
Transplanted	13,800	14,150	87	89
Total	15,900	15,900	100	100

PROCESSING TOMATOES: METHOD OF HARVESTING AS PERCENT OF HARVESTED ACREAGE, OHIO, 1984-1985

Methods of harvesting	Harvested acreage 1984	Harvested acreage 1985	% of total 1984	% of total 1985
Mechanical	11,400	12,100	72	76
Handpicked	4,500	3,800	28	24
Total	15,900	15,900	100	100

OFF-FARM COMMERCIAL GRAIN STORAGE CAPACITY, JANUARY 1, 1985-1986

County	Capacity 1/ 1985	Capacity 1/ 1986	County	Capacity 1/ 1985	Capacity 1/ 1986	County	Capacity* 1985	Capacity* 1986
	1,000 bushels			1,000 bushels			1,000 bushels	
Adams	850	851	Hancock	17,418	17,545	Paulding	7,237	7,094
Allen	5,779	6,514	Hardin	4,896	5,172	Perry	60	4
Ashland	1,695	1,916	Harrison	3	3	Pickaway	3,829	3,979
Ashtabula	212	378	Henry	8,537	8,700	Pike	0	0
Athens	0	7	Highland	2,066	2,114	Portage	699	847
Auglaize	3,259	3,283	Hocking	950	958	Preble	3,301	3,311
Belmont	16	16	Holmes	254	266	Putnam	2,696	2,754
Brown	195	198	Huron	9,278	9,279	Richland	2,645	2,640
Butler	1,630	1,635	Jackson	60	60	Ross	2,023	2,063
Carroll	2	9	Jefferson	0	2	Sandusky	3,569	3,591
Champaign	6,239	6,488	Knox	1,408	1,464	Scioto	160	160
Clark	3,457	3,432	Lake	0	0	Seneca	5,195	5,452
Clermont	0	0	Lawrence	500	500	Shelby	7,781	8,097
Clinton	4,533	4,334	Licking	2,304	2,319	Stark	275	352
Columbiana	536	440	Logan	2,262	2,799	Summit	0	0
Coshocton	2,518	2,707	Lorain	1,890	1,932	Trumbull	0	0
Crawford	3,456	3,644	Lucas	52,852	53,164	Tuscarawas	446	472
Cuyahoga	500	506	Madison	3,905	3,945	Union	1,009	1,060
Darke	4,763	4,886	Mahoning	1,413	1,364	Van Wert	6,258	6,621
Defiance	3,154	3,154	Marion	9,656	9,566	Vinton	0	0
Delaware	1,027	1,032	Medina	394	272	Warren	557	711
Erie	3,526	3,210	Meigs	10	17	Washington	0	2
Fairfield	637	988	Mercer	2,514	2,577	Wayne	2,580	2,611
Fayette	3,187	2,972	Miami	5,951	6,173	Williams	3,852	4,024
Franklin	9,665	9,665	Monroe	3	3	Wood	12,480	12,342
Fulton	5,568	5,827	Montgomery	4,561	3,967	Wyandot	8,253	8,483
Gallia	0	0	Morgan	10	10			
Geauga	177	142	Morrow	2,354	2,746			
Greene	2,389	2,601	Muskingum	1,246	1,291			
Guernsey	8	8	Noble	2	2			
Hamilton	12,313	11,993	Ottawa	2,161	2,160	STATE	295,054	299,673

1/ 1985 County Data Estimate by Ohio Agricultural Statistics Service as of January 1st; 1986 County Data is Warehousemen and Dealer Licensees as of Jan. 17, 1986 from the Ohio Dept. of Agriculture.

GRAIN STOCKS: TOTAL STOCKS AND PERCENT OF PRODUCTION, BY QUARTERS, OHIO, 1984-1986

Crop	Year	January 1		April 1		June 1		October 1 1/	
		All positions	% of 2/ prod.	All positions	% of 2/ prod.	All positions	% of 2/ prod.	All positions	% of 2/ prod.
		Thousand bushels							
CORN	1984	215,957	96.4	120,644	53.9	81,655	36.5	9,660	4.3
	1985	342,591	74.4	183,998	40.0	121,113	26.3	32,804	7.1
	1986	389,361	76.1						
SOYBEANS	1984	99,378	94.7	55,258	52.6	30,865	29.4	8,439	8.0
	1985	102,767	74.7	63,271	46.0	39,471	28.7	17,979	13.1
	1986	113,783	70.8						
WHEAT	1984	51,034	86.8	28,673	48.8	12,689	21.6	46,929	97.0
	1985	29,317	60.6	17,068	35.3	11,354	23.5	52,884	89.8
	1986	33,939	57.6						
OATS	1984	11,439	74.5	6,762	44.0	4,581	29.8	14,891	107.4
	1985	10,884	78.5	6,750	48.7	4,354	31.4	23,557	89.4
	1986	16,652	63.2						

1/Soybean stocks are for September 1. 2/Percent of production refers to previous year's production, except October 1 where percent for wheat and oats refers to current year.

STOCKS OF GRAIN: BY POSITION AND QUARTER, OHIO, 1984-86

Crop	Year	January 1		April 1		June 1		October 1 1/	
		On farms	Off farms	On farms	Off farms	On farms	Off farms	On farms	Off farms
		Thousand bushels							
CORN	1984	138,880	77,077	58,240	62,404	42,560	39,095	4,480	5,180
	1985	243,906	98,685	110,448	73,550	78,234	42,879	18,408	14,396
	1986	266,141	123,220						
SOYBEANS	1984	40,934	58,444	18,893	36,365	8,397	22,468	3,149	5,290
	1985	53,666	49,101	27,521	35,750	19,265	20,206	8,256	9,723
	1986	62,636	51,147						
WHEAT	1984	7,644	43,390	2,940	25,733	1,764	10,925	6,776	40,153
	1985	3,146	26,171	968	16,100	726	10,628	7,068	45,816
	1986	2,651	31,288						
OATS	1984	7,680	3,759	3,840	2,922	2,150	2,431	9,425	5,466
	1985	6,930	3,954	3,465	3,285	2,356	1,998	15,020	8,537
	1986	10,013	6,639						

1/Soybean stocks are for September 1.

ALL HAY ON FARMS 1/: OHIO, 1983-86

Year	Jan. 1	Percent of prod.	May 1	Percent of prod.
	Thou. ton	Pct.	Thou. ton	Pct.
1983	2,338	66	425	12
1984	2,076	64	422	13
1985	2,429	64	569	15
1986	2,986	65		

1/Pertains to previous year's production.

CORN, SOYBEANS, WHEAT, OATS, ALL HAY: HARVESTED ACRES, YIELD AND PRODUCTION, OHIO, 1977-85

Year	Corn for grain			Soybeans			Wheat		
	Harvested acres	Yield	Production	Harvested acres	Yield	Production	Harvested acres	Yield	Production
	Thou.	Bu./acre	Thou. bu.	Thou.	Bu./acre	Thou. bu.	Thou.	Bu./acre	Thou. bu.
1977	3,620	105.0	380,100	3,480	35.0	121,800	1,540	47.0	72,380
1978	3,610	105.0	379,050	3,870	33.0	127,710	1,080	39.0	42,120
1979	3,630	115.0	417,450	4,080	35.5	144,840	1,320	48.0	63,360
1980	3,900	113.0	440,700	3,760	36.0	135,360	1,370	49.0	67,130
1981	3,750	96.0	360,000	3,450	28.5	98,325	1,600	44.0	70,400
1982	4,000	114.0	456,000	3,700	36.0	133,200	1,200	43.0	51,600
1983	2,800	80.0	224,000	3,280	32.0	104,960	1,200	49.0	58,800
1984	3,900	118.0	460,200	3,770	36.5	137,605	1,100	44.0	48,400
1985	4,030	127.0	511,810	3,870	41.5	160,605	950	62.0	58,900

Year	Oats			All hay (Tons)			5 Major Crops* (Thou. acres)
1977	370	59.0	21,830	1,550	2.30	3,558	10,860
1978	340	61.0	20,740	1,550	2.50	3,875	10,740
1979	290	70.0	20,300	1,440	2.51	3,618	11,000
1980	290	67.0	19,430	1,430	2.51	3,588	11,040
1981	270	63.0	17,010	1,420	2.53	3,599	10,890
1982	340	69.0	23,460	1,340	2.64	3,543	10,910
1983	240	64.0	15,360	1,260	2.57	3,244	9,080
1984	220	63.0	13,860	1,350	2.81	3,795	10,620
1985	310	85.0	26,350	1,450	3.17	4,600	10,860

*Corn and soybeans planted plus hay, wheat and oats harvested.

FARM REAL ESTATE: VALUE AND CASH RENTS, OHIO, 1978-86

Year	Average value per acre 1/			Cash rent per acre 2/		
	Index 3/	Actual	% Prev. Year	Cropland	Pasture	Whole Farms
		Dollars			Dollars	
1978	113	1,224	111	68.00	18.22	59.60
1979	138	1,483	121	76.80	24.90	69.00
1980	156	1,730	117	81.80	27.80	72.00
1981	160	1,831	106	87.70	27.30	78.60
1982	137	1,629	89	88.40	28.10	80.80
1983	121	1,504	92	89.10	25.40	77.80
1984	116	1,444	96	79.96	22.50	71.78
1985	90	1,126	78	72.64	25.87	72.18
1986	81	1,013	90	70.32	24.87	65.88

1/Averages for this historic series use census of agriculture data for benchmarks and in intercensal years are based on sample surveys of farmers, farm real estate brokers, land appraisers, local banks, and county officials. 2/Rents are based on a March 1 survey of farmers until 1981. For 1982-1985 the survey was conducted April 1. In 1986 the survey was conducted February 1. 3/1977=100 (base year).

CASH RENTS, BY CROP REPORTING DISTRICT, OHIO, 1985-86

Dist.	1985 Farmland Rent Estimate	1986 rent per acre farmland			1985 Cropland Rent Estimate	1986 rent per acre cropland			1985 Pasture Rent Estimate	1986 rent per acre pasture		
		Estimate	Range	Number of Reports		Estimate	Range	Number of Reports		Estimate	Range	Number Report
		Dollars		Number		Dollars		Number		Dollars		Number
1	90	85	40-130	102	100	85	30-125	121	30	30	10-60	22
2	80	75	30-150	81	85	75	25-125	101	30	30	10-50	31
3	50	40	15-120	58	45	40	15-80	70	20	20	5-30	31
4	95	85	50-130	95	95	85	50-150	121	30	30	8-60	37
5	75	70	20-125	84	80	70	20-125	111	25	25	5-50	54
6	45	40	20-60	22	55	55	15-100	27	25	25	7-50	20
7	85	80	25-125	49	85	85	35-150	57	30	30	7-50	23
8	60	45	20-75	32	60	50	25-95	44	25	25	5-50	27
9	40	40	15-75	25	50	50	15-125	31	20	20	6-50	24

LAST OCCURRENCE OF CRITICAL FAHRENHEIT TEMPERATURES IN SPRING 1985

STATION	20		24		28		30		32		36		40		43	
	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY
HOYTVILLE	4	10	4	10	4	11	5	10	5	10	5	20	5	20	5	30
FINDLAY	3	18	4	9	4	10	4	10	4	10	4	10	5	19	5	19
TOLEDO	4	9	4	9	4	10	4	10	4	10	5	19	5	22	5	29
FREMONT	4	9	4	9	4	10	4	11	4	11	4	11	5	9	5	22
WILLARD	4	10	4	10	4	11	4	11	4	11	5	10	5	22	6	25
PANDORA	3	18	4	9	4	10	4	10	4	11	4	29	5	19	5	22
WOOSTER	4	11	4	11	4	11	4	18	5	10	5	23	5	23	5	23
AKRON CANTON	4	10	4	10	4	10	4	10	4	17	5	22	5	22	5	29
CANFIELD	4	11	4	11	4	18	5	10	5	23	5	23	5	30	6	26
CLEVELAND	3	18	4	10	4	10	5	9	5	9	5	19	5	22	5	22
YOUNGSTOWN	4	10	4	10	4	10	4	17	5	9	5	22	5	29	5	29
CELINA	3	19	4	10	4	10	4	10	4	10	4	17	5	20	5	20
COLUMBUS	3	18	4	10	4	10	4	10	4	10	4	17	5	22	5	22
MARION	4	9	4	9	4	9	4	11	4	11	5	2	5	19	5	22
DELAWARE	3	19	4	11	4	11	4	11	4	18	5	20	5	23	5	26
OSU COLUMBUS	4	7	4	10	4	10	4	10	5	2	5	4	5	19	6	2
COSHOCTON	4	10	4	10	4	10	4	11	4	11	4	17	5	20	5	22
MANSFIELD	4	9	4	10	4	10	4	10	4	17	4	29	5	22	6	13
CINCINNATI	2	28	3	18	4	10	4	10	4	10	4	10	4	10	5	18
OXFORD	3	19	4	11	4	11	4	11	4	11	4	11	5	20	5	20
DAYTON	3	18	4	10	4	10	4	10	4	10	4	17	5	19	5	19
RIPLEY	3	18	4	10	4	10	4	11	4	11	4	11	5	4	6	13
S CHARLESTON	3	19	4	11	4	11	4	11	4	11	4	30	5	20	6	14
WILMINGTON	3	19	4	10	4	11	4	11	4	11	4	17	5	4	5	19
CIRCLEVILLE	4	10	4	10	4	11	5	5	5	5	5	5	6	13	6	13
CALDWELL	4	11	4	11	4	11	4	11	4	11	5	5	5	19	5	23
JACKSON	4	11	4	11	4	11	4	11	4	18	5	5	5	20	6	15
ZANESVILLE	4	10	4	10	4	10	4	10	4	10	5	4	5	22	6	14
HUNTINGTON	4	10	4	10	4	10	4	10	4	10	4	10	5	4	5	4
PARKERSBURG	4	10	4	10	4	10	4	10	4	10	4	10	5	4	5	18

FIRST OCCURRENCE OF CRITICAL FAHRENHEIT TEMPERATURES IN FALL 1985

STATION	20		24		28		30		32		36		40		43	
	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY	MO.	DAY
HOYTVILLE	12	3	11	22	11	21	10	3	10	3	10	2	9	14	9	13
FINDLAY	12	2	12	2	11	21	11	21	10	2	10	2	9	25	9	14
TOLEDO	12	2	12	2	11	21	11	21	10	2	10	2	9	13	9	13
FREMONT	12	2	11	21	11	21	10	2	10	2	10	2	9	14	9	13
WILLARD	12	2	11	21	10	2	10	2	9	13	9	13	9	13	9	13
PANDORA	12	2	11	21	11	21	11	21	10	2	10	2	9	14	9	13
WOOSTER	12	3	11	22	10	8	10	8	10	3	9	26	9	14	9	13
AKRON CANTON	12	3	11	21	11	21	11	8	10	29	10	7	9	13	9	13
CANFIELD	12	3	11	22	10	8	10	7	9	15	9	13	9	13	9	13
CLEVELAND	12	2	12	2	11	21	11	8	11	8	10	2	9	15	9	13
YOUNGSTOWN	12	3	12	2	10	29	10	17	10	17	9	14	9	12	9	12
CELINA	12	3	11	22	11	22	11	21	10	3	10	3	9	14	9	14
COLUMBUS	12	3	12	2	11	21	11	21	11	8	10	2	9	25	9	13
MARION	12	2	11	21	11	21	11	21	10	2	10	2	9	13	9	13
DELAWARE	12	3	11	22	11	21	11	21	10	3	9	26	9	15	9	13
OSU COLUMBUS	12	2	11	21	11	21	11	21	9	1	9	1	9	1	9	1
COSHOCTON	12	2	11	21	10	6	10	6	10	6	10	6	10	2	9	13
MANSFIELD	12	2	11	21	11	21	11	21	11	21	10	2	9	14	9	13
CINCINNATI	12	2	11	23	11	21	11	21	11	8	10	2	9	25	9	16
OXFORD	12	3	11	22	11	21	10	3	10	3	9	26	9	15	9	13
DAYTON	12	2	11	21	11	21	11	21	11	21	10	2	9	13	9	13
RIPLEY	12	2	12	2	11	21	11	21	11	8	10	2	9	25	9	13
S CHARLESTON	12	3	11	22	11	21	11	21	10	3	10	3	9	14	9	14
WILMINGTON	12	2	11	22	11	21	11	21	10	3	10	2	9	14	9	12
CIRCLEVILLE	12	3	12	2	11	21	11	21	11	8	9	16	9	16	9	1
CALDWELL	12	3	12	3	11	22	11	21	11	9	10	8	9	15	9	13
JACKSON	12	3	11	22	10	8	10	8	10	7	9	17	9	14	9	13
ZANESVILLE	12	3	12	2	11	21	10	7	10	7	9	25	9	12	9	12
HUNTINGTON	12	3	12	3	12	2	11	23	11	21	10	7	10	7	9	14
PARKERSBURG	12	3	12	3	11	23	11	21	11	21	10	7	9	14	9	12

MONTHLY PRECIPITATION, SEASON ACCUMULATION AND DEVIATIONS FROM NORMAL, IN INCHES 1/, 1985

MONTH	MONTH	DEV	ACCUM	ACCUM DEV	MONTH	DEV	ACCUM	ACCUM DEV	MONTH	DEV	ACCUM	ACCUM DEV
	HOYTVILLE				FINDLAY				FREMONT			
APR	1.91	-1.03	1.91	-1.03	.82	-2.12	.82	-2.12	2.03	-.91	2.03	-.91
MAY	2.92	-.12	4.83	-1.15	3.24	.20	4.06	-1.92	3.64	.60	5.67	-.31
JUN	4.26	1.32	9.09	.17	3.43	.49	7.49	-1.43	1.96	-.98	7.63	-1.29
JUL	2.32	-.72	11.41	-.55	5.53	2.49	13.02	1.06	2.52	-.52	10.15	-1.81
AUG	3.00	.22	14.41	-.33	5.29	2.25	18.31	3.31	3.96	.92	14.11	-.89
SEP	2.19	.23	16.60	-.10	2.48	.49	20.79	3.80	.85	-1.21	14.96	-2.10
OCT	3.91	1.88	20.51	1.78	2.64	1.10	23.43	4.90	2.97	1.47	17.93	-.63
NOV	4.38	2.42	24.89	4.20	5.98	4.02	29.41	8.92	5.31	3.35	23.24	2.72
	PANDORA				TOLEDO				WILLARD			
APR	1.26	-1.68	1.26	-1.68	1.90	-.68	1.90	-.68	2.51	-.43	2.51	-.43
MAY	3.13	.09	4.39	-1.59	1.85	-.47	3.75	-1.15	5.00	1.96	7.51	1.53
JUN	3.21	.27	7.60	-1.32	2.90	-.04	6.65	-1.19	2.89	-.05	10.40	1.48
JUL	1.86	-1.18	9.46	-2.50	3.02	-.02	9.67	-1.21	5.08	2.04	15.48	3.52
AUG	5.61	3.29	15.07	.79	4.35	1.41	14.02	.20	3.69	.65	19.17	4.17
SEP	2.26	.30	17.33	1.09	2.40	.44	16.42	.64	.12	-2.53	19.29	1.64
OCT	3.59	1.56	20.92	2.65	3.15	1.68	19.57	2.32	2.64	.61	21.93	2.26
NOV	5.63	3.67	26.55	6.32	5.89	3.93	25.46	6.24	5.14	3.18	27.07	5.44
	AKRON CANTON				CANFIELD				CLEVELAND			
APR	1.26	-1.68	1.26	-1.68	1.94	-1.00	1.94	-1.00	1.59	-1.35	1.59	-1.35
MAY	6.39	3.35	7.65	1.67	4.69	1.65	6.63	.65	3.20	.16	4.79	-1.19
JUN	2.84	-.10	10.49	1.57	4.67	1.66	11.30	2.31	2.93	-.01	7.72	-1.20
JUL	2.51	-.76	13.00	.81	2.32	-1.57	13.62	.74	3.49	.45	11.21	-.75
AUG	3.47	.43	16.47	1.24	3.57	.53	17.19	1.27	2.83	-.21	14.04	-.96
SEP	.66	-1.69	17.13	-.45	1.09	-1.56	18.28	-.28	1.45	-.87	15.49	-1.83
OCT	1.61	-.42	18.74	-.87	1.24	-.79	19.52	-1.07	3.64	1.61	19.13	-.22
NOV	9.12	7.16	27.86	6.29	9.49	7.53	29.01	6.46	8.76	6.80	27.89	6.58
	WOOSTER				YOUNGSTOWN				CELINA			
APR	1.71	-1.23	1.71	-1.23	2.44	-.50	2.44	-.50	1.96	-.98	1.96	-.98
MAY	5.62	2.58	7.33	1.35	2.66	-.38	5.10	-.88	4.11	1.07	6.07	.09
JUN	3.00	.06	10.33	1.41	2.72	-.22	7.82	-1.10	3.25	.31	9.32	.40
JUL	3.76	-.06	14.09	1.34	4.94	1.44	12.76	.34	1.89	-1.15	11.21	-.75
AUG	4.67	1.60	18.76	2.94	3.14	.10	15.90	.44	3.31	1.22	14.52	.47
SEP	.97	-1.64	19.73	1.30	2.22	-.43	18.12	.02	1.63	-.36	16.15	.10
OCT	1.64	-.39	21.37	.91	1.37	-.66	19.49	-.64	2.44	.41	18.59	.52
NOV	7.56	5.60	28.93	6.51	9.21	7.25	28.70	6.61	6.62	4.66	25.21	5.18
	COLUMBUS				OSU COLUMBUS				COSHOCTON			
APR	.79	-2.15	.79	-2.15	.66	-2.28	.66	-2.28	1.54	-1.40	1.54	-1.40
MAY	4.92	1.88	5.71	-.27	4.92	1.88	5.58	-.40	4.25	1.31	5.89	-.09
JUN	1.44	-2.12	7.15	-2.39	1.53	-2.03	7.11	-2.43	3.16	-.14	9.05	-.23
JUL	6.84	3.18	13.99	.79	4.33	.67	11.44	-1.76	2.67	-1.38	11.72	-1.61
AUG	2.74	-.30	16.73	.49	1.29	-1.75	12.73	-3.51	1.55	-1.69	13.27	-3.30
SEP	.68	-1.54	17.41	-1.05	.66	-1.56	13.39	-5.07	.67	-1.75	13.94	-5.05
OCT	2.43	.93	19.84	-.13	2.15	.65	15.54	-4.43	1.99	-.04	15.93	-5.08
NOV	10.56	8.60	30.40	8.47	10.84	8.88	26.38	4.45	10.47	8.51	26.40	3.43
	MANSFIELD				MARION				DELAWARE			
APR	1.69	-1.25	1.69	-1.25	.87	-2.07	.87	-2.07	1.84	-1.10	1.84	-1.10
MAY	6.54	3.50	8.23	2.25	5.83	2.79	6.70	.72	2.90	-.14	4.74	-1.24
JUN	3.12	.18	11.35	2.43	5.55	2.61	12.25	3.33	3.57	.63	8.31	-.61
JUL	2.89	-.15	14.24	2.28	3.26	.22	15.51	3.55	2.40	-.97	10.71	-1.58
AUG	6.30	3.26	20.54	5.54	5.30	2.26	20.81	5.81	.00	-3.04	10.71	-4.62
SEP	1.22	-1.26	21.76	4.28	.92	-1.53	21.73	4.28	.04	-2.18	10.75	-6.80
OCT	2.76	1.09	24.52	5.37	2.14	.11	23.87	4.39	2.11	.08	12.86	-6.72
NOV	12.54	10.58	37.06	15.95	6.98	5.02	30.85	9.41	8.14	5.18	21.00	-.54
	CIRCLEVILLE				CINCINNATI				DAYTON			
APR	1.83	-1.11	1.83	-1.11	1.30	-1.64	1.30	-1.64	1.72	-1.22	1.72	-1.22
MAY	6.20	2.90	8.03	1.79	6.18	3.14	7.48	1.50	4.38	1.34	6.10	.12
JUN	2.60	-.34	10.63	1.45	4.57	.81	12.05	2.31	2.27	-.67	8.37	-.55
JUL	3.89	.03	14.52	1.48	2.27	-1.55	14.32	.76	1.92	-1.12	10.29	-1.67
AUG	2.44	-.70	16.96	.78	2.69	.17	17.01	.93	3.27	.56	13.56	-1.11
SEP	.33	-2.35	17.29	-1.57	.40	-1.56	17.41	-.63	.68	-1.28	14.24	-2.39
OCT	3.66	1.63	20.95	.07	6.19	4.16	23.60	3.53	2.72	.96	16.96	-1.44
NOV	11.34	9.38	32.29	9.45	7.52	4.81	31.12	8.34	8.00	6.04	24.96	4.60
	RIPLEY				S CHARLESTON				WILMINGTON			
APR	1.56	-1.51	1.56	-1.51	1.90	-1.04	1.90	-1.04	2.05	-1.87	2.05	-1.87
MAY	5.50	2.46	7.06	.95	4.03	.50	5.93	-.54	6.46	2.41	8.51	.54
JUN	5.08	2.14	12.14	3.09	1.51	-1.46	7.44	-2.00	2.55	-1.37	11.06	-.84
JUL	2.70	-1.29	14.84	1.80	2.23	-1.69	9.67	-3.70	4.31	.58	15.37	-.25
AUG	2.84	-.85	17.68	.95	3.36	.32	13.03	-3.38	4.41	1.37	19.78	1.12
SEP	.68	-2.10	18.36	-1.15	.73	-1.66	13.76	-5.03	.58	-2.17	20.36	-1.05
OCT	5.68	3.65	24.04	2.50	2.39	.36	16.15	-4.67	4.21	2.18	24.57	1.14
NOV	6.97	4.39	31.01	6.89	10.49	8.53	26.64	3.86	9.81	6.97	34.38	8.11
	OXFORD				CALDWELL				JACKSON			
APR	3.06	.12	3.06	.12	1.26	-1.68	1.26	-1.68	1.92	-1.32	1.92	-1.32
MAY	3.92	.88	6.98	1.00	4.34	1.24	5.60	-.45	5.24	2.20	7.16	.89
JUN	3.83	.73	10.81	1.73	2.38	-1.54	7.98	-1.99	2.48	-.56	9.64	.33
JUL	2.73	-1.16	13.54	.57	4.88	.83	12.86	-1.16	4.40	.35	14.04	.67
AUG	3.11	.07	16.65	.64	3.99	.69	16.85	-.47	3.27	-.19	17.31	.48
SEP	.65	-2.00	17.30	-1.36	.81	-1.64	17.66	-2.11	.37	-2.47	17.68	-1.99
OCT	3.50	1.47	20.80	.11	1.55	-.48	19.21	-2.59	3.03	1.00	20.71	-.99
NOV	6.45	4.49	27.25	4.60	11.29	9.33	30.50	6.74	6.73	4.77	27.44	3.78
	ZANESVILLE				HUNTINGTON				PARKERSBURG			
APR	1.48	-1.46	1.48	-1.46	1.18	-1.76	1.18	-1.76	1.53	-1.41	1.53	-1.41
MAY	4.51	1.47	5.99	.01	4.83	.88	6.01	-.89	4.51	1.47	6.04	.06
JUN	1.40	-2.33	7.39	-2.32	2.89	-1.03	8.90	-1.92	1.30	-1.64	7.34	-1.58
JUL	5.23	1.18	12.62	-1.14	5.37	1.32	14.27	-.60	5.58	2.05	12.92	.47
AUG	2.98	-.32	15.60	-1.46	5.51	1.98	19.78	1.38	2.29	-.91	15.21	-.44
SEP	.26	-1.96	15.86	-3.42	.30	-2.35	20.08	-.97	.58	-1.77	15.79	-2.22
OCT	1.82	-.21	17.68	-3.63	5.09	3.06	25.17	2.10	4.90	2.87	20.69	.66
NOV	13.52	11.56	31.20	7.93	7.43	5.47	32.60	7.57	7.19	5.23	27.88	5.89

1/DEVIATIONS FROM NORMAL RAINFALL ARE DERIVED USING THE AVERAGE RAINFALL OVER A 30-YEAR PERIOD. THESE NORMALS ARE UPDATED EACH DECADE, AND WEATHER STATIONS WITHOUT DEVIATIONS HAD LESS THAN 30 YEARS OF DATA DURING THE PERIOD 1941-70.

MONTHLY GROWING DEGREE DAYS, SEASON ACCUMULATION, DEVIATIONS FROM NORMAL, 1/1985

MONTH	MONTH	DEV	ACCUM	ACCUM DEV	MONTH	DEV	ACCUM	ACCUM DEV	MONTH	DEV	ACCUM	ACCUM DEV
	HOYTVILLE				FINDLAY				FREMONT			
APR	293	121	293	121	306	169	306	169	315	201	315	201
MAY	416	55	709	176	447	117	753	286	422	105	737	306
JUN	449	-150	1158	26	481	-92	1234	194	461	-122	1198	184
JUL	653	-76	1811	-50	694	-13	1928	181	658	-77	1856	107
AUG	586	-82	2397	-132	616	-34	2544	147	576	-110	2432	-3
SEP	496	40	2893	-92	515	90	3059	237	485	26	2917	23
OCT	229	-9	3122	-101	276	74	3335	311	261	59	3178	82
NOV	92	64	3214	-37	107	92	3442	403	78	58	3256	140
	PANDORA				TOLEDO				WILLARD			
APR	331	177	331	177	279	143	279	143	288	131	288	131
MAY	467	123	798	300	443	122	722	265	371	42	659	173
JUN	490	-91	1288	209	475	-58	1197	207	431	-105	1090	68
JUL	692	0	1980	209	729	56	1926	263	610	-48	1700	20
AUG	620	-12	2600	197	615	2	2541	265	567	-46	2267	-26
SEP	528	104	3128	301	482	85	3023	350	484	72	2751	46
OCT	264	39	3392	340	252	50	3275	400	242	26	2993	72
NOV	92	71	3484	411	87	73	3362	473	79	56	3072	128
	AKRON CANTON				CANFIELD				CLEVELAND			
APR	286	147	286	147	267	102	267	102	278	159	278	159
MAY	414	100	700	247	391	58	658	160	410	115	688	274
JUN	436	-92	1136	155	407	-95	1065	65	438	-84	1126	190
JUL	663	-5	1799	150	568	-56	1633	9	670	5	1796	195
AUG	620	-6	2419	144	560	-31	2193	-22	603	-21	2399	174
SEP	503	97	2922	241	481	77	2674	55	495	80	2894	254
OCT	259	65	3181	306	240	20	2914	75	258	63	3152	317
NOV	92	75	3273	381	91	66	3005	141	109	90	3261	407
	WOOSTER				YOUNGSTOWN				CELINA			
APR	277	140	277	140	285	166	285	166	314	128	314	128
MAY	389	85	666	225	408	119	693	285	471	97	785	225
JUN	419	-80	1085	145	426	-57	1119	228	534	-63	1319	162
JUL	628	-3	1713	142	614	0	1733	228	727	2	2046	164
AUG	584	-3	2297	139	587	6	2320	234	615	-55	2661	109
SEP	488	105	2785	244	490	120	2810	354	521	68	3182	177
OCT	249	55	3034	299	247	71	3057	425	312	70	3494	247
NOV	94	78	3128	377	87	77	3144	502	104	74	3598	321
	COLUMBUS				OSU COLUMBUS				COSHOCTON			
APR	338	153	338	153	324	139	324	139	308	106	308	106
MAY	457	86	795	239	445	74	769	213	417	43	725	149
JUN	533	-66	1328	173	493	-106	1262	107	473	-92	1198	57
JUL	722	-12	2050	161	631	-103	1893	4	692	11	1890	68
AUG	670	-16	2720	145	641	-45	2534	-41	656	9	2546	77
SEP	544	83	3264	228	528	67	3062	26	530	90	3076	167
OCT	335	103	3599	331	289	57	3351	83	286	39	3362	206
NOV	132	102	3731	433	75	45	3426	128	97	55	3459	261
	MANSFIELD				MARION				DELAWARE			
APR	299	166	299	166	312	168	312	168	308	130	308	130
MAY	414	106	713	272	420	99	732	267	411	61	719	191
JUN	432	-101	1145	171	468	-71	1200	196	465	-96	1184	95
JUL	668	-6	1813	165	661	-14	1861	182	663	-33	1847	62
AUG	596	-36	2409	129	603	-9	2464	173	636	-5	2483	57
SEP	491	77	2900	206	513	105	2977	278	530	101	3013	158
OCT	262	64	3162	270	282	70	3259	348	288	56	3301	214
NOV	97	82	3259	352	109	88	3368	436	116	84	3417	298
	CIRCLEVILLE				CINCINNATI				DAYTON			
APR	345	108	345	108	353	135	353	135	330	131	330	131
MAY	445	20	790	128	508	99	861	234	447	12	777	143
JUN	550	-90	1340	38	614	-24	1475	210	532	-151	1309	-8
JUL	693	-73	2033	-35	774	-4	2249	206	724	-82	2033	-90
AUG	638	-83	2671	-118	700	-37	2949	169	662	-106	2695	-196
SEP	533	22	3204	-96	559	48	3508	217	548	13	3243	-183
OCT	328	42	3532	-54	375	117	3883	334	326	69	3569	-114
NOV	140	78	3672	24	165	118	4048	452	137	97	3706	-17
	RIPLEY				S CHARLESTON				WILMINGTON			
APR	332	82	332	82	308	114	308	114	313	114	313	114
MAY	450	31	782	113	416	45	724	159	430	53	743	167
JUN	568	-50	1350	63	491	-93	1215	66	518	-72	1261	95
JUL	733	-8	2083	55	657	-50	1872	16	674	-36	1935	59
AUG	652	-57	2735	-2	621	-38	2493	-22	618	-49	2553	10
SEP	545	46	3280	44	520	67	3013	45	522	66	3075	76
OCT	338	56	3618	100	299	57	3312	102	313	65	3388	141
NOV	162	89	3780	189	104	70	3416	172	127	89	3515	230
	OXFORD				CALDWELL				JACKSON			
APR	316	65	316	65	323	98	323	98	325	92	325	92
MAY	412	-23	728	42	414	33	737	131	442	50	767	142
JUN	525	-130	1253	-88	509	-54	1246	77	547	-20	1314	122
JUL	687	-82	1940	-170	692	12	1938	89	690	-13	2004	109
AUG	656	-70	2596	-240	649	-4	2587	85	654	-5	2658	104
SEP	527	8	3123	-232	518	64	3105	149	518	64	3176	168
OCT	337	43	3460	-189	315	55	3420	204	339	68	3515	236
NOV	125	56	3585	-133	130	81	3550	285	185	118	3700	354
	ZANESVILLE				HUNTINGTON				PARKERSBURG			
APR	331	143	331	143	379	82	379	82	384	132	384	132
MAY	447	87	778	230	484	5	863	87	533	127	917	259
JUN	517	-43	1295	187	623	-59	1486	28	605	42	1522	301
JUL	712	18	2007	205	763	-19	2249	9	733	38	2255	339
AUG	655	5	2662	210	697	-64	2946	-55	678	19	2933	358
SEP	535	98	3197	308	566	3	3512	-52	557	100	3490	458
OCT	335	103	3532	411	406	94	3918	42	373	93	3863	551
NOV	135	99	3667	510	238	135	4156	177	188	122	4051	673

1/DEVIATIONS FROM NORMAL GROWING DEGREE DAYS (GDD) ARE DERIVED USING GDD OVER A 30-YEAR PERIOD. THESE NORMALS ARE UPDATED EACH DECADE, AND STATIONS WITHOUT DEVIATIONS HAD LESS THAN 30 YEARS OF DATA DURING THE PERIOD 1941-70.

PLANTING PROGRESS: CORN, SOYBEANS, OATS, OHIO, 1985, 1984 AND AVERAGE 1980-84

Date	Corn			Soybeans			Oats		
	1985	1984	1980-84 average	1985	1984	1980-84 average	1985	1984	1980-84 average
	Percent								
Apr. 10	-	-	-	-	-	-	24	-	21
20	10	-	-	-	-	-	59	13	27
30	52	2	13	-	-	-	92	23	59
May 10	85	20	38	29	5	10	100	49	81
20	94	50	61	60	20	32	-	80	94
30	100	70	77	80	33	48	-	100	100
Jun. 10	-	95	91	93	75	73	-	-	-
20	-	99	96	100	97	88	-	-	-
30	-	100	98	-	100	95	-	-	-
Jul. 10	-	-	100	-	-	100	-	-	-

CORN DEVELOPMENT: OHIO, 1985, 1984, 1980-84 AVERAGE

Date	Silked			Date	Dough			Date	Mature		
	1985	1984	1980-84 average		1985	1984	1980-84 average		1985	1984	1980-84 average
					Percent						
Jul. 10	6	-	-								
Jul. 20	55	12	35								
30	88	55	67	Jul. 30	29	10	12				
Aug. 10	100	86	91	Aug. 10	64	21	34				
20	-	100	99	20	100	69	69				
30	-	-	100	30	-	86	89	Aug. 30	7	3	5
				Sep. 10	-	98	100	Sep. 10	22	22	29
				20	-	100	-	20	53	47	59
								30	96	75	80
								Oct. 10	100	94	92
								20	-	100	97
								30	-	-	100

PLANTING PROGRESS: WINTER WHEAT, OHIO, 1985, 1984 AND AVERAGE 1980-84

Date	Wheat harvest following year		
	1985	1984	1980-84 average
	Percent		
Sep. 20	5	-	3
30	20	14	17
Oct. 10	54	42	51
20	78	64	77
30	92	79	91
Nov. 10	97	90	97
20	100	100	100

HARVESTING PROGRESS: CORN AND SOYBEANS, OHIO, 1985-1984 AND AVERAGE 1980-84

Date	Corn for grain			Soybeans		
	1985	1984	1980-84 average	1985	1984	1980-84 average
	Percent					
Sep. 20	4	4	3	3	-	4
30	11	6	10	18	10	17
Oct. 10	20	10	19	48	26	41
20	36	16	36	67	38	65
30	52	28	56	83	55	82
Nov. 10	65	44	74	89	69	91
20	72	65	87	91	83	96
30	78	82	95	93	94	99

HARVESTING PROGRESS: WHEAT, OATS, OHIO, 1985, 1984, AND AVERAGE 1980-84

Date	Wheat			Oats		
	1985	1984	1980-84 average	1985	1984	1980-84 average
			Percent			
Jun. 30	12	-	-	-	-	-
Jul. 10	49	10	15	3	-	1
20	89	73	81	23	6	11
30	99	98	98	52	33	49
Aug. 10	100	100	100	89	62	83
20	-	-	-	97	86	95
30	-	-	-	100	100	100

DAYS FAVORABLE FOR FIELD WORK: OHIO, 1985, 1984 AND AVERAGE 1980-84

Date	1985		1984		1980-84	
	7-day	Cumulative	7-day	Cumulative	7-day	Cumulative
	Number of days					
Apr. 8	0.6	0.6				
15	2.3	2.9	2.4	2.4	1.6	1.6
22	6.6	9.5	0.1	2.5	2.5	4.1
29	6.5	16.0	1.8	4.3	4.1	8.2
May 6	4.1	20.1	2.3	6.6	3.7	11.9
13	6.7	26.8	2.6	9.2	3.4	15.3
20	2.1	28.9	4.7	13.9	3.6	18.9
27	4.7	33.6	1.8	15.7	3.4	22.3
Jun. 3	4.1	37.7	3.9	19.6	2.9	25.2
10	5.0	42.7	6.7	26.3	4.3	29.5
17	1.4	44.1	6.1	32.4	4.6	34.1
24	5.0	49.1	6.1	38.5	5.2	39.3
Jul. 1	6.3	55.4	6.4	44.9	5.0	44.3
8	4.8	60.2	3.9	48.8	4.6	48.9
15	5.0	65.2	6.0	54.8	6.2	55.1
22	6.3	71.5	6.4	61.2	5.3	60.4
29	6.2	77.7	4.7	65.9	5.3	65.7
Aug. 5	5.5	83.2	4.7	70.6	5.2	70.9
12	4.2	87.4	5.0	75.6	5.1	76.0
19	5.1	92.5	6.5	82.1	5.5	81.5
26	5.0	97.5	6.0	88.1	6.2	87.7
Sep. 2	5.9	103.4	5.0	93.1	5.1	92.8
9	6.3	109.7	5.3	98.4	5.6	98.4
16	6.5	116.2	5.7	104.1	5.4	103.8
23	6.8	123.0	5.6	109.7	5.4	109.2
30	5.6	128.6	3.9	113.6	5.3	114.5
Oct. 7	6.1	134.7	4.9	118.5	5.6	120.1
14	5.2	139.9	4.0	122.5	5.5	125.6
21	4.3	144.2	3.6	126.1	5.0	130.6
28	5.6	149.8	3.0	129.1	4.3	134.9
Nov. 4	3.1	152.9	3.3	132.4	4.6	139.5
11	0.8	153.7	3.4	135.8	4.9	144.4
18	0.4	154.1	2.4	138.2	3.2	147.6
25	3.2	157.3				

MARKETINGS: WHEAT, OATS, CORN, SOYBEANS, PERCENT OF ANNUAL SALES BY MONTHS, OHIO, 1983-84, 1984-85

Month	Wheat		Oats		Month	Corn		Soybeans	
	1983-84	1984-85	1983-84	1984-85		1983-84	1984-85	1983-84	1984-85
	Percent					Percent			
Jul.	62	58	22	16	Sep.	-	-	10	5
Aug.	13	14	27	28	Oct.	21	7	25	22
Sep.	4	7	6	11	Nov.	17	21	7	16
Oct.	1	3	4	4	Dec.	9	10	5	6
Nov.	2	2	6	2	Jan.	15	11	10	7
Dec.	3	2	4	5	Feb.	9	8	4	4
Jan.	4	5	4	6	Mar.	9	10	13	9
Feb.	2	3	11	4	Apr.	5	8	8	7
Mar.	4	2	7	8	May	4	6	14	6
Apr.	3	2	4	6	Jun.	3	5	1	7
May	1	1	2	4	Jul.	2	5	1	5
Jun.	1	1	3	6	Aug.	4	4	2	6
					Sep.	2	5	-	-

CONSUMPTION OF COMMERCIAL FERTILIZERS, OHIO, 1982-85

Specified mixtures and materials	Year ending June 30			
	1982	1983	1984	1985
	Tons			
Mixed fertilizers, all	907,432	640,834	766,698	
6-24-24	139,215	81,501	79,474	
18-46-0	151,234	147,000	156,871	
15-15-15	16,131	11,956	10,836	
Anhydrous ammonia	161,880	125,938	136,318	
Urea	107,327	104,791	105,782	
Ammonium nitrate	14,569	9,445	6,916	
Ammonium sulfate	15,750	16,999	17,992	
Nitrogen solutions	475,679	286,381	411,685	
Superphosphates	69,703	65,570	76,530	
Potassium chloride	426,037	349,704	414,003	
Organics	10,225	6,299	1,338	
Total all fertilizers 2/	2,206,523	1,622,840	1,963,105	
	Percent			
Total dry	59	66	63	
Total fluid	41	34	37	

1/Preliminary. 2/Not sum of above specified mixtures and materials.

FERTILIZER USE ON CORN AND WHEAT ACREAGE HARVESTED FOR GRAIN AND SOYBEANS FOR BEANS, OHIO, 1985 1/

Crop	Fields in survey	Acres receiving				Rate per acre receiving			Acres fertilized		
		Any fertilizer	N	P_2O_5	K_2O	N	P_2O_5	K_2O	Before seeding	After seeding	At or before & after seeding
	Number	Percent				Pounds			Percent		
Corn	162	100	98	97	94	153	68	97	56	2	42
Soybeans	112	60	35	48	58	13	37	74	93	6	1
Wheat	71	92	92	86	80	77	66	72	16	15	69

1/Based on 1984 Objective Yield Surveys. Published in Fertilizer Inputs, February 1985.

AVERAGE PRICES PAID BY FARMERS PER TON FOR SELECTED COMMERCIAL FERTILIZERS IN NORTH CENTRAL STATES 1/

Selected fertilizer	March 15, 1985	May 15, 1985	October 15, 1985	December 15, 1985
	Dollars per ton			
5-20-20	158	157	151	145
6-24-24	194	191	180	176
8-32-16	210	211	199	194
10-34-0	237	234	223	217
12-12-12	165	165	165	154
15-15-15	185	180	176	166
18-46-0	242	240	226	221
Ammonium nitrate	180	181	175	165
Urea 45-46%	221	220	199	187
Anhydrous ammonia	250	249	232	227
Nitrogen solution 28%	136	135	129	124
Super phosphate 44-46%	198	199	186	183
Muriate of potash 60% K_2O	126	127	109	106

1/Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio and Wisconsin.

1985 LIVESTOCK, DAIRY AND POULTRY REVIEW

Cattle and hog inventories increased slightly during 1985. Sheep and lamb numbers increased for the first time in 26 years. Milk production in 1985 rebounded from the 1984 production level and was the highest since 1966. Both total cheese and swiss cheese production set new highs. Layer numbers increased and this was reflected in a record high egg output. Prices received for livestock, poultry and products were below 1984 except for sheep, lambs and calves.

All cattle and calves as of January 1, 1986 totaled 1,840,000 head, a slight increase of 5,000 head from a year ago. Cows that have calved, at 775,000 head, increased 5 percent. Beef cow numbers at 385,000 head, were up 7 percent and milk cows, at 390,000 head, were up 3 percent. The USDA Milk Production Control Program was in effect when the January 1, 1985 inventory survey was conducted. The other classifications showing increases from a year earlier were bulls (39,000 head) up 3 percent; beef replacement heifers (70,000 head) up 17 percent; and calves weighing less than 500 pounds (406,000 head) up 3 percent. Classifications showing declines from a year earlier were milk replacement heifers down 10 percent; other heifers down 11 percent; and steers weighing more than 500 pounds down 7 percent.

Ohio 1985 milk production totaled 4.87 billion pounds up 5 percent from the 4.65 billion pounds produced 1984. The 1985 output per cow, at 12,552 pounds, was a record high and 652 pounds above the previous record in 1983. Cheese production during 1985 totaled a record high of 106.6 million pounds up 9 percent from 1984 production. Swiss cheese production also reached a record high with 54.6 million pounds, up 24 percent from the record 44.1 million pounds produced a year ago. Ohio ranks first in the U.S. for Swiss cheese production.

Hog and pig inventory on December 1, 1985 totaled 1,980,000 head, up 1 percent from the 1,970,000 head on hand, December 1, 1984. Ohio's breeding stock inventory, at 275,000 head, increased 10 percent, while total hogs and pigs for market decreased only 1 percent. The number of sows that farrowed during the September - November quarter 1985 totaled 105,000 head, up 2 percent from one year ago. From these sows, averaging 8.0 head per litter a pig crop of 840,000 head was produced. This was the highest September - November since 1978 when the pig crop was 880,000 head. Cash receipts for hogs declined 13 percent below 1984 sales of $374 million.

Sheep and lamb inventory on January 1, 1986 numbered 275,000 head, a 4 percent increase from a year earlier. All classes held steady or increased. Over the long term, this inventory equals the second lowest inventory number on record set in 1983. The 1984 and 1985 inventory numbers were the lowest at 265,000. Twenty-five years ago over 1 million sheep were in Ohio, and a little over 40 years ago 2 million sheep were on hand. There has been a steady decline since the mid-1940's. The value per head of sheep and lambs increased 10 percent to $77.50, a record high. The total inventory value of all sheep and lambs was $21,313,000, a 14 percent increase from a year earlier.

Preliminary cash receipts for livestock and livestock products were $1.5 billion, down $0.1 billion from 1984 and accounted for 36 percent of all farm commodity cash receipts. Prices received for calves and sheep and lambs showed increases from 1984, while hog and cattle prices each declined about $4.00 per hundredweight from 1984. Sheep prices during 1985 averaged $34.90, double the $17.30 received during 1984. Both egg and milk prices decreased.

Egg production in Ohio at 3.6 billion for 1985 increased 147 million from 1984. This output is the highest annual egg production on record, ranking the Buckeye State 6th nationally in production. California leads all states with 8.1 billion eggs produced and Indiana remained runner-up with 5.5 billion eggs gathered. Very few farms produce eggs commercially and less than 1 percent of the farms with layers produced over 90 percent of Ohio eggs. The bottom dropped out of the egg market, and the average 1985 price was 42.0 cents per dozen compared to 64.9 cents a year ago. The value of production in 1985, at $126 million was down a third from the $186 million received in 1984. The number of turkeys raised was unchanged from 1984. Seventy-one million pounds of turkey were processed from 2.8 million birds. The price of 48 cents per pound was down two cents from 1984, but the price of feed averaged $209 per ton, allowing a turkey price ratio of 4.6 compared to 4.4 in 1984 and 3.4 in 1983. Broiler production in Ohio also remained unchanged from a year ago, with 9 million birds yielding 37.8 million pounds. But price per pound at 25.5 cents slipped slightly from 1984 and the value of production at $9,639,000 was down 12 percent from a year ago.

OPERATIONS WITH CATTLE AND MILK COWS, OHIO, 1979-85

Year	All farms	Operations with	
		All cattle	Milk cows
1979	96,000	51,000	13,000
1980	95,000	49,000	12,600
1981	94,000	48,000	12,300
1982	93,000	47,000	12,000
1983	92,000	46,000	11,700
1984	90,000	45,000	11,300
1985	89,000	45,000	11,000

CATTLE AND CALVES: ON FARMS JANUARY 1, OHIO, 1985-86

Species	1985	1986	Percent change 86/85
	Thousand head		Percent
All cattle and calves	1,835	1,840	100
Cows and heifers that have calved	740	775	105
Beef	360	385	107
Milk	380	390	103
Heifers 500 pounds and over:			
Beef replacement	60	70	117
Milk replacement	184	165	90
Other	101	90	89
Steers 500 pounds and over	316	295	93
Bulls 500 pounds and over	38	39	103
Heifers, steers, bulls under 500 pounds	396	406	103
Cattle on feed	150	160	107
Calf crop 1/	680	710	104

1/Previous year.

CATTLE AND CALVES: INVENTORY AND DISPOSITION, OHIO, 1984-86

Year	On hand January 1	Calves born	Inship-ments	Marketings		On farm slaughter	Deaths	
				Cattle	Calves		Cattle	Calves
	Thousand head							
1984	1,880	680	100	610	118	7	35	55
1985	1,835	710	140	610	140	5	30	60
1986	1,840							

CATTLE AND CALVES: PRODUCTION AND INCOME, OHIO, 1983-85

Year	Production	Marketings	Average price per 100 lbs.		Cash receipts	Value of home consumption	Gross income
			Cattle	Calves			
	Thousand pounds		Dollars		Thousand dollars		
1983	636,690	642,260	51.50	54.60	331,575	17,196	348,771
1984	615,370	637,020	54.80	52.40	336,996	27,726	376,162
1985	616,890	676,350	50.40	55.20	342,421	16,613	359,034

MILK: COWS ON FARMS, MILK PER COW, MILK PRODUCTION, MILKFAT BY MONTHS, OHIO, 1984-85

Month	Cows on farm		Milk per cow		Milk production		Milkfat-all milk	
	1984	1985	1984	1985	1984	1985	1984	1985
	Thousand head		Pounds		Million pounds		Percent	
January	402	385	965	990	388	381	3.88	3.89
February	396	380	935	950	370	361	3.79	3.88
March	392	382	1,010	1,060	396	405	3.84	3.79
April	392	385	1,025	1,050	402	404	3.78	3.70
May	391	391	1,090	1,125	426	440	3.68	3.54
June	391	391	1,035	1,090	405	426	3.53	3.52
July	390	390	1,015	1,090	396	425	3.50	3.52
August	390	390	990	1,070	386	417	3.50	3.52
September	389	389	950	1,030	370	401	3.63	3.59
October	387	390	965	1,050	373	410	3.73	3.72
November	385	388	945	1,005	364	390	3.82	3.81
December	382	390	980	1,050	374	410	3.86	3.87
Annual	391	[illegible]	11,993	12,552	4,690	4,870	3.72	3.70

MILK PRODUCTION AND DISPOSITION, OHIO, 1983-85

Year	Milk used where produced			Milk marketed by producers				Total milk produced
	Fed to calves	Used for milk, cream and butter	Total	Sold to plants & dealers: As whole milk	Sold to plants & dealers: As separated cream	Sold 1/ directly to consumers	Total marketed	
	Million pounds							
1983	28	23	51	4,695	-	14	4,709	4,760
1984	50	20	70	4,565	-	15	4,580	4,650
1985	35	20	55	4,800	-	15	4,815	4,870

1/Includes institutional herds

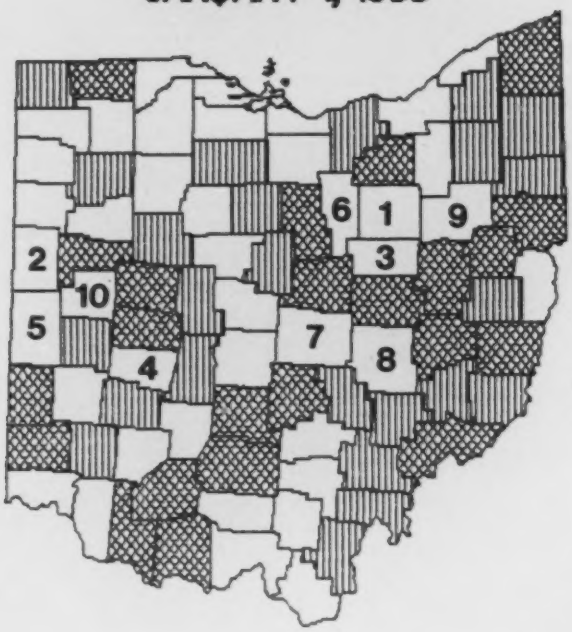
MILK: QUANTITY MARKETED, PRICE, CASH RECEIPTS AND VALUE, OHIO, 1984-85

Year	Combined marketings milk & cream			Used for milk, cream & butter where produced		Gross producer income	Value of milk produced
	Milk utilized	Price per 100 lbs.	Cash receipts from marketings	Milk utilized	Value		
	Mil. lbs.	Dollars	1,000 dol.	Mil. lbs.	1,000 dol.	1,000 dol.	1,000 dol.
1984	4,580	13.55	620,531	20	2,710	623,241	630,015
1985	4,815	12.85	618,586	20	2,569	621,155	625,652

MILK COWS: PERCENT OF OPERATIONS AND INVENTORY BY SIZE GROUPS, OHIO, 1984-85

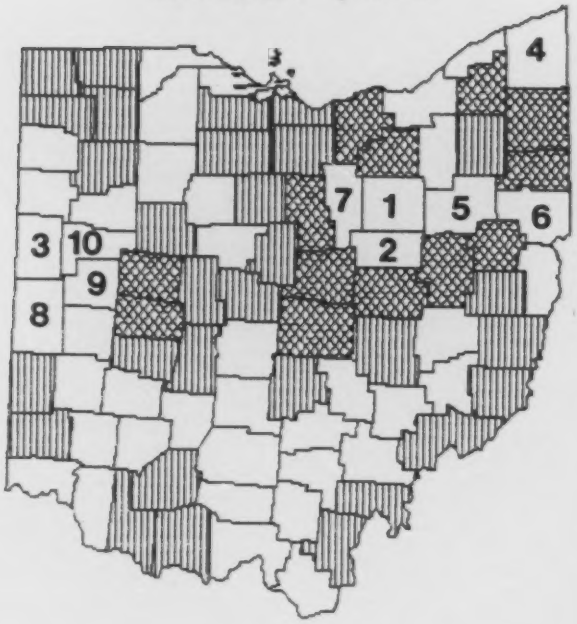
Item	Size of operation							
	1-29		30-49		50-99		100+	
	1984	1985	1984	1985	1984	1985	1984	1985
	Percent							
Operations	56.6	52.7	19.4	19.1	18.6	21.8	5.3	6.4
Inventory	22.4	18.7	21.1	21.0	35.5	37.9	21.1	22.3

ALL CATTLE
(THOUSAND HEAD)
JANUARY 1, 1986



SYMBOL	THOUSAND HEAD
1-10	TOP TEN COUNTIES 34.0 AND OVER
	25.0 - 33.9
	15.0 - 24.9
	UNDER 15.0

MILK COWS
(THOUSAND HEAD)
JANUARY 1, 1986



SYMBOL	THOUSAND
1-10	TOP TEN COUNTIES 10.0 AND OVER
	5.0 - 9.9
	2.0 - 4.9
	UNDER 2.0

ALL CATTLE AND MILK COWS: ON FARMS, JANUARY 1, 1985-86
ALL MILK SOLD TO PLANTS AND DEALERS, OHIO, 1984-85

County & District	All Cattle and Calves		Milk Cows and Heifers that have calved		Milk Sold	
	January 1, 1985	January 1, 1986	January 1985	January 1, 1986	1984	1985
	Head				(Mil. lbs.)	
llen	11,500	13,000	1,600	1,700	21.0	21.0
efiance	12,000	13,000	2,200	2,300	22.0	23.0
ulton	29,000	29,000	2,800	3,000	38.0	37.0
ancock	7,000	7,000	1,200	1,300	10.0	10.0
enry	11,000	11,000	1,700	2,000	18.0	19.0
ucas	2,000	2,000	*	*	*	*
aulding	6,000	6,000	1,100	1,100	10.0	10.0
utnam	14,000	15,000	3,500	3,600	44.0	46.0
an Wert	6,500	6,000	1,800	1,800	19.0	18.0
illiams	23,000	24,000	2,800	2,800	41.0	41.0
ood	8,000	9,000	*	*	*	*
istrict 1	**130,000**	**135,000**	**20,000**	**21,000**	**236.0**	**239.0**
shland	41,000	40,000	13,000	12,800	148.0	154.0
rawford	16,000	16,000	2,500	2,600	31.0	34.0
rie	8,000	10,000	2,200	2,100	24.0	18.0
uron	14,000	13,000	5,500	4,900	68.0	72.0
orain	17,000	16,000	6,300	6,500	79.0	85.0
ttawa	2,000	2,000	*	*	*	*
ichland	27,000	26,000	5,400	6,400	68.5	84.0
andusky	13,000	13,000	2,000	2,000	21.0	21.0
eneca	15,000	16,000	3,100	3,400	39.0	40.0
yandot	7,000	8,000	*	*	*	*
istrict 2	**160,000**	**160,000**	**42,000**	**43,000**	**498.5**	**531.0**
shtabula	34,000	30,000	14,000	14,400	157.0	163.0
olumbiana	35,000	29,000	13,200	13,500	154.0	161.0
uyahoga	*	*	*	*	*	*
eauga	14,000	15,000	5,700	5,700	68.0	65.0
ake	*	*	*	*	*	*
ahoning	17,000	16,000	6,200	6,700	67.0	77.0
edina	25,000	25,000	8,400	8,400	109.0	113.0
ortage	16,000	16,000	4,400	4,700	57.0	61.0
tark	34,000	35,000	12,500	13,500	176.0	187.0
ummit	2,000	2,000	*	*	*	*
rumbull	19,000	20,000	6,800	7,000	86.0	89.0
ayne	92,000	100,000	36,000	37,500	484.0	508.0
istrict 3	**290,000**	**290,000**	**108,000**	**112,000**	**1,367.0**	**1,433.0**
uglaize	35,000	32,000	10,000	10,200	134.0	142.0
hampaign	32,000	33,000	6,300	6,400	73.0	77.0
lark	46,000	43,000	2,100	2,200	17.0	19.0
arke	41,000	42,000	10,000	10,600	132.0	147.0
ardin	19,000	19,000	3,900	3,600	36.0	34.0
ogan	32,000	30,000	7,700	7,200	113.0	113.0
ercer	50,000	57,000	16,800	17,500	254.0	278.0
iami	22,000	19,000	2,000	1,900	27.0	30.0
helby	33,000	34,000	10,200	10,400	135.0	144.0
istrict 4	**310,000**	**309,000**	**69,000**	**70,000**	**921.0**	**984.0**
laware	13,000	14,000	2,300	2,500	25.0	27.0
airfield	29,000	28,000	4,100	4,000	49.5	47.0
ayette	14,000	13,000	*	*	*	*
anklin	6,000	6,000	1,400	*	14.5	*
ox	33,000	29,000	8,600	9,600	95.0	107.0
cking	38,000	37,000	5,700	5,800	67.0	63.0
adison	24,000	22,000	2,400	2,500	23.5	23.0
arion	12,000	11,000	*	1,500	*	14.0
orrow	18,000	16,000	3,600	3,400	29.0	31.0
ickaway	24,000	25,000	1,700	1,600	13.0	13.0
ss	27,000	28,000	1,900	1,700	15.0	14.0
nion	22,000	21,000	4,400	4,400	45.0	46.0
istrict 5	**260,000**	**250,000**	**36,000**	**39,000**	**395.0**	**404.0**

OHIO COUNTY ESTIMATES

ALL CATTLE AND MILK COWS: ON FARMS, JANUARY 1, 1985-86
ALL MILK SOLD TO PLANTS AND DEALERS, OHIO, 1984-85

County & District	All Cattle and Calves		Milk Cows and Heifers that have calved		Milk Sold	
	January 1, 1985	January 1, 1986	January 1985	January 1, 1986	1984	1985
	Head				(Mil. lbs.)	
Belmont	25,000	26,000	4,000	4,200	38.0	40.0
Carroll	23,000	27,000	6,500	6,900	62.0	64.0
Coshocton	32,000	27,000	5,400	5,700	57.0	60.0
Harrison	16,000	17,000	2,400	2,700	30.0	33.0
Holmes	56,000	51,000	21,800	24,500	212.0	249.0
Jefferson	12,000	13,000	1,500	1,600	22.0	23.0
Tuscarawas	31,000	30,000	9,400	9,400	150.0	153.0
District 6	**195,000**	**191,000**	**51,000**	**55,000**	**571.0**	**622.0**
Butler	25,000	26,000	3,800	3,800	44.0	45.0
Clermont	11,000	10,000	*	*	*	*
Clinton	16,000	14,000	1,400	1,500	16.0	17.0
Greene	19,000	20,000	*	*	*	*
Hamilton	5,000	6,000	*	*	*	*
Montgomery	12,000	11,000	1,600	1,800	21.0	22.0
Preble	25,000	25,000	3,200	3,200	43.0	42.0
Warren	17,000	18,000	1,700	1,900	18.0	19.0
District 7	**130,000**	**130,000**	**14,000**	**14,800**	**174.5**	**177.0**
Adams	33,000	33,000	4,900	4,900	48.0	47.0
Brown	26,000	26,000	3,100	3,100	28.0	30.0
Gallia	21,000	21,000	2,700	2,500	31.0	30.0
Highland	31,000	32,000	4,100	3,100	34.0	37.0
Jackson	13,000	13,000	*	*	*	*
Lawrence	11,000	11,000	1,100	*	7.5	*
Pike	12,000	11,000	*	*	*	*
Scioto	13,000	13,000	1,800	1,700	21.5	22.0
District 8	**160,000**	**160,000**	**19,000**	**17,500**	**183.0**	**192.0**
Athens	15,000	16,000	1,600	1,600	21.0	21.0
Guernsey	24,000	25,000	2,100	1,800	20.0	21.0
Hocking	7,000	8,000	*	*	*	*
Meigs	13,000	15,000	2,300	2,000	21.0	21.0
Monroe	19,000	21,000	3,000	2,800	30.0	29.0
Morgan	19,000	21,000	1,800	1,500	20.0	18.0
Muskingum	35,000	37,000	3,000	3,000	41.0	42.0
Noble	17,000	18,000	*	*	*	*
Perry	15,000	16,000	1,100	1,200	15.0	15.0
Vinton	7,000	8,000	*	*	*	*
Washington	29,000	30,000	3,000	3,000	41.0	42.0
District 9	**200,000**	**215,000**	**19,000**	**17,700**	**219.0**	**218.0**
STATE	**1,635,000**	**1,840,000**	**380,000**	**390,000**	**4,585.0**	**4,800.0**

* Counties with less than 1,000 head not published. Counties with more than 1,000 head are also unpublished, if necessary, to preserve the confidentiality of counties with less than 1,000 head.

ALL CATTLE AND CALVES: INVENTORY AND VALUE, JANUARY 1, 1984-86

Inventory			Value per head			Total value		
1984	1985	1986	1984	1985	1986	1984	1985	1986
Thousand head			Dollars			Million dollars		
1,880	1,835	1,840	430	445	435	808.4	816.6	800.4

ALL CATTLE AND CALVES: PERCENT OF OPERATIONS AND INVENTORY BY SIZE GROUPS, OHIO, 1984-85

Item	Size of operation							
	1-49		50-99		100-499		500+	
	1984	1985	1984	1985	1984	1985	1984	1985
	Percent							
Operations	80.0	77.8	12.0	13.3	7.7	8.6	0.3	0.3
Inventory	34.3	32.6	21.2	23.0	37.1	37.0	7.4	7.3

MANUFACTURED DAIRY PRODUCTS: PRODUCTION BY MONTHS, OHIO, 1984-85

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
American cheese - thousand pounds													
1984	3,084	2,795	3,219	3,349	3,842	4,192	3,283	2,263	2,279	2,196	2,399	3,020	35,921
1985	2,852	1,907	1,885	2,758	3,638	3,280	2,948	2,996	2,167	2,533	2,716	3,594	33,354
Swiss cheese - thousand pounds													
1984	3,238	3,203	3,727	3,759	4,056	4,067	4,031	3,662	3,348	3,815	3,456	3,708	44,070
1985	3,900	3,697	4,378	4,585	5,166	4,791	4,617	4,179	5,029	5,041	4,299	4,905	54,587
All cheese - thousand pounds													
1984	7,835	7,484	8,421	8,633	9,306	9,541	8,583	7,330	7,076	7,584	7,408	8,231	97,432
1985	8,299	7,382	8,054	8,763	10,072	9,524	9,114	8,635	8,699	9,292	8,609	10,165	106,608
Butter - thousand pounds													
1984	2,366	1,739	1,901	2,355	2,117	968	523	690	806	1,047	928	1,128	16,768
1985	1,873	1,505	1,697	2,340	2,446	1,324	901	854	1,060	2,161	1,558	2,139	19,858
Cottage cheese curd - thousand pounds													
1984	2,056	2,220	2,201	2,023	2,378	1,660	1,589	2,202	2,002	2,140	1,934	1,963	23,968
1985	2,074	2,062	2,296	2,209	2,281	2,071	1,643	2,417	2,061	2,332	2,263	1,998	25,707
Cottage cheese, lowfat - thousand pounds													
1984	806	1,135	1,297	1,343	1,032	820	525	1,055	998	1,045	903	697	11,656
1985	1,017	1,109	1,363	1,086	1,132	1,040	592	1,271	1,000	1,134	1,435	989	13,168
Cottage cheese, creamed - thousand pounds													
1984	2,907	3,449	3,355	3,393	4,181	3,456	3,231	3,683	3,204	3,461	3,266	2,734	40,320
1985	3,370	3,155	3,423	3,480	3,728	3,353	3,229	3,808	3,518	3,344	3,407	3,126	40,941
Ice cream mix - thousand gallons													
1984	1,402	1,740	2,106	2,067	2,066	2,367	2,448	2,486	2,120	1,966	1,569	1,466	24,005
1985	1,559	1,515	1,660	2,050	2,443	2,307	2,755	2,570	2,327	1,870	1,330	1,628	24,014
Milk sherbet mix - thousand gallons													
1984	107	115	174	174	209	248	231	182	149	114	120	126	1,949
1985	115	106	166	207	219	242	249	206	172	134	127	134	2,077
Ice Cream - thousand gallons													
1984	2,841	3,588	4,213	3,998	3,834	4,935	4,677	4,890	4,132	3,712	3,442	3,006	47,268
1985	2,934	2,932	3,689	3,623	4,157	4,396	4,800	4,656	4,256	3,509	2,912	3,242	45,106
Ice milk - thousand gallons													
1984	848	1,124	1,433	1,678	2,118	2,521	2,203	2,150	1,406	1,147	861	742	18,231
1985	532	562	811	1,474	1,653	1,659	1,830	1,587	1,127	774	461	390	12,860
Milk sherbet - thousand gallons													
1984	170	185	266	282	311	365	318	273	232	189	182	230	3,003
1985	176	154	267	290	295	330	349	299	267	218	196	215	3,056
Water ices - thousand gallons													
1984	78	235	332	288	344	546	417	337	163	98	73	32	2,943
1985	107	172	247	457	510	553	319	270	243	45	65	43	3,031

ALL HOGS AND PIGS: QUARTERLY INVENTORY, BY CLASSES, OHIO, 1985-86

Year and quarter	Total hogs	Breeding hogs	Market hogs and pigs				
			Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over	Total
	Thousand head						
1985							
March 1	1,800	225	580	380	325	290	1,575
June 1	1,900	260	710	410	280	240	1,640
September 1	1,970	270	710	400	330	260	1,700
December 1	1,980	275	705	410	320	270	1,705
1986							
March 1	1,890	245	625	350	370	300	1,645

HOGS: INVENTORY NUMBER, PIG CROP, AND DISPOSITION, OHIO, 1983-86

Year	December 1 inventory 1/	Pig crop		Inshipments	Marketings 2/	Farm 3/ slaughter	Deaths
		Dec.-May	Jun.-Nov.				
	Thousand head						
1983	1,920	1,676	1,757	254	3,194	13	200
1984	2,200	1,498	1,593	190	3,301	10	200
1985	1,970	1,493	1,693	162	3,131	12	195
1986	1,980						

1/December 1 previous year. 2/Excludes interfarm sales. 3/Excludes custom slaughter for farmers at commercial establishments.

HOGS: PRODUCTION AND INCOME, OHIO, 1983-85

Year	Production	Marketings	Price per cwt.	Cash receipts	Value of home consumption	Gross income
	Thousand pounds		Dollars	Thousand dollars		
1983	773,288	743,080	46.20	343,517	3,330	346,847
1984	731,518	768,471	48.30	371,409	2,805	374,214
1985	736,098	733,701	44.40	326,116	1,619	327,735

SOW FARROWINGS, PIGS PER LITTER, AND PIG CROP, OHIO, 1984-85

Year	December-May pig crop 1/			June-November pig crop		
	Sows farrowing	Pigs/litter	Pig crop	Sows farrowing	Pigs/litter	Pig crop
	Thou. head	Head	Thou. head	Thou. head	Head	Thou. head
1984	197	7.60	1,498	203	7.85	1,593
1985	190	7.86	1,493	213	7.95	1,693

1/December previous year.

HOGS AND PIGS: PERCENT OF OPERATIONS AND INVENTORY BY SIZE GROUP, OHIO, 1984-85

Item	Size of operation					
	1-99		100-499		500+	
	1984	1985	1984	1985	1984	1985
	Percent					
Operations	71.3	73.3	23.3	22.0	5.4	4.7
Inventory	13.9	16.7	41.7	37.0	44.4	46.3

SHEEP AND LAMBS, JANUARY 1, OHIO, 1984-86

Year	Total	Sheep on feed	Stock sheep and lambs	Lambs		One year and older		New crop lambs 1/
				Ewes	Wethers and rams	Ewes	Wethers and rams	
	Thousand head							
1984	265	40	225	28	6	185	6	12
1985	265	45	220	27	5	181	7	11
1986	275	50	225	28	5	185	7	12

1/Not included in total inventory.

SHEEP: INVENTORY AND DISPOSITION, OHIO, 1984-86

Year	Inventory	Lamb crop	Inship-ments	Marketings		Farm slaughter	Deaths	
	January 1			Sheep	Lambs		Sheep	Lambs
	Thousand head							
1984	265	220	4	25	158	4	14	23
1985	265	215	8	21	152	4	13	23
1986	275							

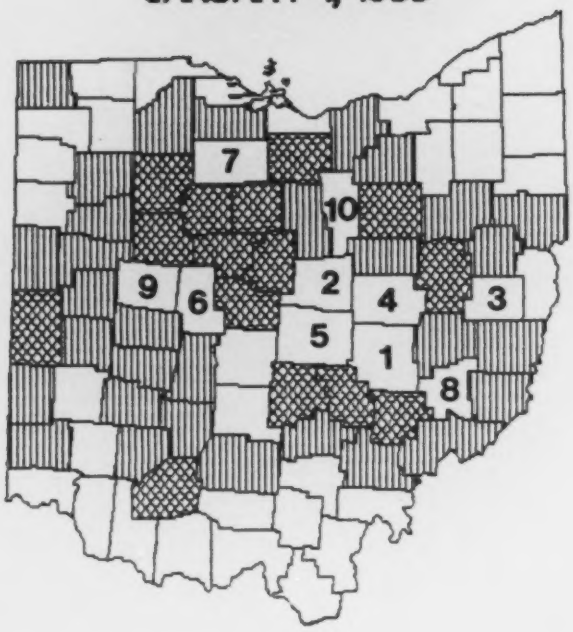
SHEEP: PRODUCTION AND INCOME, OHIO, 1983-85

Year	Production	Marketings	Average price per cwt.		Cash receipts	Value of home consumption	Gross income
			Sheep	Lambs			
	Thousand pounds		Dollars		Thousand dollars		
1983	16,520	19,751	18.00	53.00	9,040	275	9,315
1984	17,340	17,119	17.30	59.20	9,171	334	9,505
1985	17,205	16,255	34.90	66.90	10,203	416	10,619

WOOL: PRODUCTION AND VALUE, OHIO, 1983-85

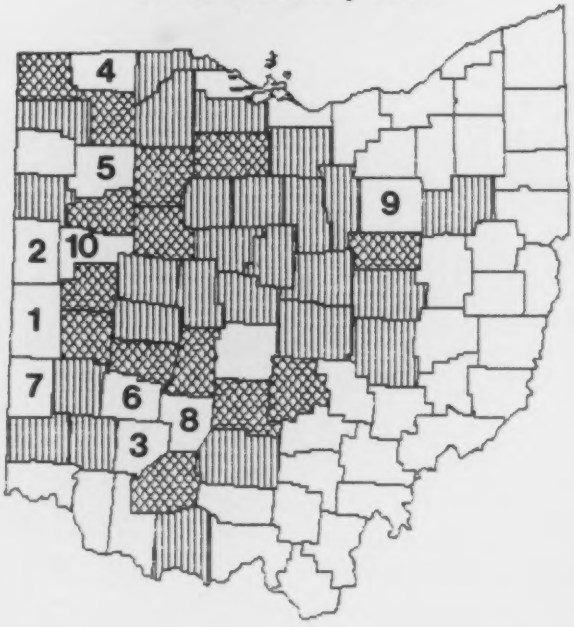
Year	Sheep shorn	Weight per fleece	Production	Price per pound	Value
	Thousand head	Pounds	Thousand pounds	Cents	Thousand dollars
1983	273	7.1	1,937	38	736
1984	260	7.2	1,868	55	1,027
1985	270	7.4	2,001	45	900

STOCK SHEEP
(THOUSAND HEAD)
JANUARY 1, 1986



SYMBOL	THOUSAND HEAD
1-10	TOP TEN COUNTIES 5.2 AND OVER
	3.0 - 5.1
	1.6 - 2.9
	UNDER 1.6

HOGS AND PIGS
(THOUSAND HEAD)
DECEMBER 1, 1985



SYMBOL	THOUSAND HEAD
1-10	TOP TEN COUNTIES 47.0 AND OVER
	30.0 - 46.9
	10.0 - 29.9
	UNDER 10.0

OHIO COUNTY ESTIMATES

HOGS AND PIGS: NUMBER ON FARMS, DECEMBER 1, 1984-85
STOCK SHEEP: NUMBER ON FARMS, OHIO, JANUARY 1, 1985-86

County & District	Hogs and Pigs		Stock Sheep	
	December 1, 1984	December 1, 1985	January 1, 1985	January 1, 1986
			Head	
Allen	42,000	41,000	1,500	2,000
Defiance	23,000	21,000	*	*
Fulton	93,000	83,000	*	*
Hancock	31,000	31,000	4,300	4,700
Henry	33,000	31,000	1,400	1,500
Lucas	14,000	12,000	*	*
Paulding	10,000	8,000	*	*
Putnam	80,000	80,000	2,100	2,100
Van Wert	21,000	18,000	*	*
Williams	37,000	35,000	2,000	2,300
Wood	16,000	15,000	1,500	1,700
District 1	400,000	376,000	16,000	18,000
Ashland	24,000	25,000	5,000	5,200
Crawford	23,000	23,500	4,100	3,700
Erie	4,000	4,000	*	*
Huron	21,000	17,000	3,000	3,600
Lorain	6,000	6,000	1,500	1,700
Ottawa	5,000	4,500	*	*
Richland	19,000	19,000	3,300	2,900
Sandusky	16,000	16,000	1,400	2,000
Seneca	37,000	36,000	6,300	6,300
Wyandot	27,000	24,000	4,000	3,900
District 2	182,000	175,000	30,000	31,000
Ashtabula	5,000	5,500	*	*
Columbiana	7,500	8,000	1,500	1,600
Cuyahoga	*	*	*	*
Geauga	3,000	3,000	*	*
Lake	*	*	*	*
Mahoning	4,000	4,500	*	*
Medina	10,000	9,000	2,000	1,700
Portage	4,000	4,500	*	*
Stark	12,000	12,000	1,200	1,700
Summit	*	*	*	*
Trumbull	2,500	2,500	*	*
Wayne	54,000	55,000	3,800	3,700
District 3	103,000	105,000	13,000	13,000
Auglaize	44,000	47,000	3,000	2,500
Champaign	30,000	25,000	3,000	2,900
Clark	33,000	35,000	1,800	1,700
Darke	113,000	120,000	4,500	4,000
Hardin	28,000	31,000	5,000	5,000
Logan	28,000	25,000	5,800	5,400
Mercer	90,000	87,000	1,700	1,600
Miami	36,000	36,000	2,200	2,000
Shelby	48,000	44,000	3,000	2,900
District 4	450,000	460,000	30,000	28,000
Delaware	20,000	21,000	3,400	3,000
Fairfield	32,000	34,000	4,200	3,900
Fayette	54,000	60,000	3,300	2,900
Franklin	6,000	6,500	*	1,200
Knox	27,000	29,500	11,200	10,300
Licking	17,000	16,000	7,200	7,400
Madison	33,000	39,000	2,300	2,100
Marion	29,000	28,000	4,000	3,900
Morrow	20,000	24,000	5,200	5,000
Pickaway	46,000	45,000	*	1,300
Ross	30,000	29,000	2,000	2,100
Union	26,000	28,000	6,000	7,400
District 5	340,000	361,000	61,000	60,500

OHIO COUNTY ESTIMATES

HOGS AND PIGS: NUMBER ON FARMS, DECEMBER 1, 1984-85
STOCK SHEEP: NUMBER ON FARMS, OHIO, JANUARY 1, 1985-86

County & District	Hogs and Pigs		Stock Sheep	
	December 1, 1984	December 1, 1985	January 1, 1985	January 1, 1986
			Head	
Belmont	*	*	2,800	2,600
Carroll	3,500	4,000	1,900	2,400
Coshocton	26,500	27,000	6,600	7,500
Harrison	*	*	7,200	8,000
Holmes	40,000	46,000	*	*
Jefferson	1,500	2,000	*	*
Tuscarawas	7,000	9,000	3,000	3,000
District 6	80,000	90,000	24,000	26,500
Butler	27,000	25,000	1,600	1,800
Clermont	4,000	*	*	*
Clinton	85,000	83,000	2,800	2,700
Greene	76,000	80,000	2,400	2,900
Hamilton	1,000	*	*	*
Montgomery	19,000	24,000	1,300	1,300
Preble	71,000	72,000	2,400	2,900
Warren	19,000	21,000	1,400	1,300
District 7	302,000	310,000	13,000	14,000
Adams	12,000	13,000	1,200	1,300
Brown	8,000	8,000	*	*
Gallia	2,600	3,500	*	*
Highland	34,000	32,000	4,000	3,400
Jackson	3,000	4,500	*	*
Lawrence	*	*	*	*
Pike	8,000	6,500	*	*
Scioto	*	*	*	*
District 8	70,000	70,000	8,000	8,000
Athens	2,000	1,500	1,800	2,000
Guernsey	2,000	3,000	3,000	2,800
Hocking	3,000	2,500	1,600	1,700
Meigs	*	1,600	*	*
Monroe	1,200	*	2,000	1,800
Morgan	3,000	3,000	4,000	3,600
Muskingum	17,000	18,500	12,000	11,500
Noble	*	*	4,000	6,000
Perry	5,000	5,500	3,200	3,000
Vinton	2,000	1,500	*	*
Washington	6,000	6,000	2,500	2,400
District 9	43,000	45,000	36,000	36,000
STATE	1,970,000	1,980,000	220,000	225,000

* Counties with less than 1,000 head not published. Counties with more than 1000 head are also unpublished, if necessary, to preserve the confidentiality of counties with less than 1000 head.

CHICKENS: NUMBER OF HENS AND PULLETS OF LAYING AGE
DECEMBER 1, OHIO, 1982-85

District	HPLA			
	1982	1983	1984	1985
	Thousands			
1	2,000	1,750	1,860	1,750
2	325	300	250	250
3	1,250	1,150	1,200	1,250
4	4,250	4,400	5,050	5,450
5	3,550	3,900	4,950	5,600
6	335	320	320	320
7	115	140	120	120
8	225	210	230	240
9	250	230	220	220
State	12,300	12,400	14,200	15,200

STOCKS IN COLD STORAGE, EAST NORTH CENTRAL(ENC) 1/ AND 48 STATES, END OF MONTH, 1984-85

Month	ENC		48 States		ENC		48 States		ENC		48 States	
	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985
	American cheese				Swiss cheese				Butter			
	1,000 pounds											
Jan.	368,111	274,828	1,096,809	865,655	3,837	3,782	10,918	11,575	143,075	72,668	510,638	277,277
Feb.	367,479	272,400	1,116,414	843,965	3,127	3,599	9,945	11,043	155,502	71,594	532,499	289,433
Mar.	369,275	266,573	1,117,272	806,382	3,804	3,110	10,638	10,953	154,157	77,466	529,332	291,669
Apr.	350,534	277,871	1,081,463	791,854	4,339	3,518	12,193	11,517	158,142	73,980	532,356	272,695
May	347,156	301,563	1,103,434	802,976	4,263	3,607	12,015	10,960	155,669	79,771	538,489	283,191
Jun.	362,465	330,728	1,089,067	846,826	4,087	4,536	11,906	12,418	155,773	85,066	516,713	286,800
Jul.	371,157	351,059	1,078,313	853,562	4,063	4,938	12,636	11,219	146,725	76,176	489,595	280,664
Aug.	342,761	344,546	1,045,134	856,816	4,549	5,058	12,771	12,271	138,118	69,508	462,716	264,608
Sep.	321,959	334,591	1,018,039	841,485	4,451	5,406	13,448	12,059	129,048	62,778	426,315	247,023
Oct.	304,613	306,988	979,764	794,558	3,923	5,287	12,787	12,011	117,185	52,135	374,276	231,598
Nov.	291,000	301,659	945,800	782,505	3,936	4,572	11,941	11,615	101,069	37,732	335,896	206,891
Dec.	271,753	296,562	884,827	758,815	3,534	4,750	12,061	12,092	79,934	35,582	296,550	205,514
	Eggs, frozen				Broiler-fryers 1				Whole Turkeys			
Jan.	1,799	1,837	10,972	14,895	3,439	3,190	22,470	21,746	10,485	6,671	86,632	68,112
Feb.	1,968	1,685	11,361	13,896	2,583	3,211	16,433	22,907	8,299	8,760	77,656	70,565
Mar.	1,861	1,605	11,999	13,526	2,528	3,144	14,367	24,075	8,252	8,861	83,488	70,817
Apr.	2,074	1,843	12,674	13,213	3,472	3,432	20,646	26,225	7,309	11,865	81,805	92,851
May	1,922	1,915	12,836	14,419	2,652	3,612	21,708	27,979	7,902	13,883	115,357	120,034
Jun.	2,022	2,073	16,365	15,288	2,280	3,740	17,381	28,510	13,315	18,185	154,929	174,042
Jul.	2,131	2,221	17,534	18,034	2,546	4,133	20,968	30,558	17,928	29,079	202,172	227,398
Aug.	2,220	2,137	16,575	18,401	2,633	3,821	20,403	29,309	32,221	42,212	257,387	303,882
Sep.	1,981	2,175	16,723	16,384	2,336	3,680	18,185	27,726	42,252	53,992	317,437	358,052
Oct.	2,022	2,281	17,921	15,134	2,952	3,770	22,256	27,747	49,899	60,591	345,028	402,673
Nov.	1,896	2,516	16,181	13,845	2,950	3,554	20,534	27,581	16,719	19,096	136,752	135,906
Dec.	1,740	2,224	13,392	13,181	2,879	3,461	19,739	26,558	6,787	9,757	62,556	78,324
	Frozen beef, boneless				Frozen beef cuts				Frozen pork picnics			
Jan	52,133	62,193	300,211	342,140	5,122	4,092	37,803	32,998	1,988	1,881	8,878	11,653
Feb.	49,633	57,545	298,761	314,727	5,215	3,983	33,699	32,296	1,991	1,948	8,659	11,623
Mar.	51,508	52,811	296,033	300,811	4,254	3,476	29,671	33,142	2,223	3,434	10,504	13,901
Apr.	52,442	53,071	299,857	294,628	3,634	3,949	24,721	33,421	2,921	3,389	13,044	13,142
May	46,333	46,252	284,935	269,500	5,294	3,511	27,866	31,438	2,779	3,644	14,460	13,475
Jun.	40,535	41,674	269,637	265,057	6,116	2,891	33,513	30,452	2,609	3,364	14,140	11,095
Jul.	36,913	42,963	268,705	288,056	6,699	3,091	32,958	31,595	1,689	2,645	10,996	9,541
Aug.	35,302	40,670	257,231	281,373	4,599	3,650	32,814	29,215	1,102	2,345	7,138	6,785
Sep.	34,566	42,351	279,832	278,939	4,040	4,003	39,749	29,423	1,830	2,232	7,827	6,230
Oct.	36,947	47,581	290,007	265,689	4,152	2,962	38,211	29,216	1,769	2,085	8,234	7,101
Nov.	45,406	48,353	309,455	272,039	3,791	2,798	36,606	30,217	1,596	1,413	10,060	5,541
Dec.	51,627	50,572	318,532	284,056	4,236	2,697	39,211	33,370	1,655	1,151	11,122	4,255
	Hams				Bellies				Loins			
Jan.	8,947	12,186	26,670	36,546	19,171	14,433	71,568	53,623	3,962	3,082	13,008	11,816
Feb.	12,270	11,472	40,759	39,514	20,108	13,854	78,169	51,633	3,103	3,501	10,762	10,562
Mar.	12,723	6,832	38,341	32,774	24,587	17,044	95,009	68,315	3,147	4,955	9,878	13,423
Apr.	7,551	14,592	38,876	58,882	29,558	20,100	112,205	83,836	4,796	5,733	14,223	15,519
May	15,755	25,052	66,906	81,764	32,548	21,726	127,527	96,040	4,266	5,659	13,560	15,239
Jun.	17,102	26,158	73,571	82,742	30,934	19,401	115,034	88,367	4,011	4,848	15,099	15,226
Jul.	16,530	24,676	72,808	75,701	19,627	14,030	85,630	61,397	2,971	4,568	11,865	13,387
Aug.	15,035	23,299	64,475	73,490	6,498	7,302	43,626	35,764	2,574	3,414	10,872	10,164
Sep.	16,888	22,030	70,129	72,823	2,500	3,710	22,321	20,158	2,723	3,112	9,745	9,274
Oct.	17,699	19,159	68,811	64,680	4,551	6,698	24,048	29,787	2,859	2,643	8,961	7,997
Nov.	8,635	9,058	32,278	37,770	10,371	12,047	38,333	47,427	3,788	3,051	12,528	9,717
Dec.	2,980	2,467	14,228	13,946	15,833	12,458	57,361	51,314	3,333	2,778	12,367	9,769
	Veal				Lamb and mutton				Canned hams			
Jan.	2,357	2,880	11,316	12,840	1,012	1,046	8,365	7,339	7,510	7,392	30,840	38,685
Feb.	2,359	2,870	10,729	10,819	1,113	816	7,542	6,840	9,128	9,821	35,077	47,323
Mar.	2,969	2,893	10,200	10,591	1,005	664	8,057	6,547	9,039	11,593	34,531	47,070
Apr.	2,554	3,466	9,678	10,991	977	710	9,123	7,644	8,438	11,885	34,786	48,723
May	2,030	3,230	8,396	10,563	1,074	668	8,839	8,068	9,716	11,047	43,388	46,504
Jun.	1,788	3,491	8,235	10,741	1,067	773	8,404	8,931	9,463	11,376	44,185	51,580
Jul.	1,822	3,819	8,263	11,309	939	554	8,026	9,193	8,606	11,634	42,837	49,428
Aug.	1,642	3,766	7,987	11,066	869	672	7,267	9,541	7,945	11,204	43,977	46,494
Sep.	1,809	3,378	8,376	10,295	799	528	8,889	9,237	7,741	10,405	43,314	44,286
Oct.	2,056	3,761	11,238	11,675	773	601	8,403	10,033	8,739	11,525	46,257	46,802
Nov.	2,156	3,709	13,278	11,406	624	579	7,890	12,525	7,769	9,076	42,675	37,613
Dec.	2,702	3,596	13,837	11,410	748	616	7,066	12,766	6,834	6,580	34,154	31,191

1/States included are: Ohio, Indiana, Illinois, Michigan, and Wisconsin. Data are collected from warehouses normally holding commodities for 30 days or more.

COMMERCIAL SLAUGHTER: BY MONTH, OHIO, 1984-85 1/

Month	Number of head		Average liveweight		Number of head		Average liveweight	
	1984	1985	1984	1985	1984	1985	1984	1985
	Thousands		Pounds		Thousands		Pounds	
	Cattle				Calves			
January	57.6	50.8	1,090	1,095	3.6	7.1	342	405
February	51.6	41.3	1,091	1,110	2.3	5.6	326	424
March	51.3	45.8	1,093	1,123	4.5	6.4	376	422
1st quarter	160.5	137.9	1,091	1,109	10.4	19.1	348	417
April	48.2	45.6	1,098	1,133	4.1	5.8	359	420
May	50.0	46.8	1,098	1,138	5.5	6.5	369	427
June	45.6	44.5	1,095	1,128	5.1	7.2	365	427
2nd quarter	143.8	136.9	1,097	1,133	14.7	19.5	364	425
July	51.5	50.5	1,081	1,116	5.5	8.3	350	428
August	53.4	52.0	1,090	1,123	4.9	9.4	364	368
September	44.9	44.9	1,088	1,118	4.5	7.8	391	383
3rd quarter	149.8	147.4	1,086	1,119	14.9	25.5	368	393
October	51.0	48.4	1,086	1,130	5.6	8.6	393	403
November	46.8	46.5	1,087	1,120	6.0	9.6	391	406
December	53.9	53.6	1,087	1,121	5.2	11.0	404	420
4th quarter	151.7	148.5	1,087	1,124	16.8	29.2	396	410
Annual	605.8	570.7	1,090	1,121	56.7	93.3	372	410
	Hogs				Sheep			
January	306.8	367.8	238	238	1.6	1.3	97	106
February	282.1	319.4	237	237	1.4	0.9	99	114
March	328.8	348.7	238	237	1.3	3.4	100	108
1st quarter	917.7	1,035.9	238	237	4.3	5.6	[illegible]	109
April	285.7	350.4	238	237	7.9	5.8	96	96
May	307.0	360.4	238	238	1.8	1.6	109	106
June	292.5	321.5	237	238	1.8	2.0	99	96
2nd quarter	855.2	1,032.3	238	238	11.5	9.4	101	99
July	297.8	332.8	234	238	2.7	3.1	100	97
August	310.9	383.5	233	235	3.6	3.7	100	99
September	303.2	395.9	237	236	2.5	2.2	103	102
3rd quarter	911.9	1,112.2	235	236	8.8	9.0	101	99
October	419.0	433.3	237	238	1.9	1.3	106	101
November	386.9	302.7	232	244	1.5	1.3	105	104
December	394.0	335.7	234	240	2.1	1.5	102	101
4th quarter	1,199.9	1,071.7	234	241	5.5	4.1	104	102
Annual	3,914.8	4,252.2	236	238	30.0	28.1	100	101

1/Includes slaughter in federally inspected and in other slaughter plants, but excludes animals slaughtered on farms. Total may not add due to rounding.

MINK: FEMALES BRED AND MINK PRODUCTION, OHIO, 1980-84 1/

Year	Standard	Pastel	Sapphire	Pearl	Violet-type	Demi-buff 2/	Misc. Unclassified	Total	Number of ranches
	Thousand females bred 3/								
1980	16.2	9.8	1.1	3.5	1.5	6.4	0.8	39.3	
1981	17.1	8.9	0.9	3.7	1.7	5.5	4.3	42.1	
1982	-	-	-	-	-	-	-	-	
1983	18.1	5.1	1.6	6.1	2.0	5.0	5.4	43.3	
1984	17.8	3.7	1.9	6.2	2.3	3.5	4.3	39.7	
1985	18.0	4.0	2.8	3.7	1.3	2.9	6.5	39.2	
	Thousand pelts produced 4/								
1980	52.9	27.5	2.6	9.3	3.6	25.2	11.8	132.9	40
1981	-	-	-	-	-	-	-	-	-
1982	51.0	23.6	3.8	13.9	4.3	22.6	17.8	137.0	50
1983	51.7	22.0	3.5	23.0	5.5	19.0	27.4	152.1	43
1984	57.6	13.1	7.8	21.3	6.6	18.6	18.8	143.8	43

1/Mink production estimates temporarily discontinued in 1982. 2/This color class includes females bred to produce demi-buff, dark brown, voilet, pastel, standard and pearl crosses and others. 3/1982 not available. 4/1981 not available.

CHICKENS: INVENTORY BY CLASSES, OHIO AND UNITED STATES, DECEMBER 1, 1983-85

	Ohio			United States		
	1983	1984	1985	1983	1984	1985
	Thousands					
Hens 1 year and older	4,300	3,200	4,000	132,674	119,243	130,623
Pullets of laying age	8,100	11,000	10,400	145,843	166,605	149,146
Pullets not of laying age, over 3 months old	1,800	2,500	1,720	37,747	39,013	37,449
Pullets under 3 months old	1,880	2,400	2,200	42,331	42,703	44,412
Other chickens	70	100	80	6,285	6,444	6,618
Total 1/	16,150	19,200	18,200	364,880	374,008	368,248
All chickens, value per head 2/	1.60	1.40	1.35	1.96	2.02	1.90
Total value 1/	25,840	26,880	25,920	716,700	754,312	699,715

1/Excludes commercial broilers. 2/Dollars per head.

CHICKENS: INVENTORY, DISPOSITION, INCOME AND NUMBER OF FARMS 1/, OHIO, 1984-85

	Ohio		United States	
	1984	1985	1984	1985
	Thousands			
All chickens previous December 1	16,150	5/	364,880	5/
Lost 2/	2,500	2,600	46,229	37,502
Raised 3/	16,300	5/	288,698	5/
Home consumption	250	5/	8,677	5/
Sold	10,500	11,000	224,664	220,195
All chickens current December 1	19,200	5/	374,008	5/
Number produced 4/	13,800	5/	242,469	5/
Pounds produced	59,826	5/	1,137,774	5/
Pounds sold	47,250	44,000	1,067,729	1,028,348
Home consumption (pounds)	1,125	5/	34,246	5/
Price per pound (cents)	13.7	19.0	15.9	14.8
Value of production (dollars)	8,196	5/	180,823	5/
Cash receipts (dollars)	6,473	8,360	169,732	152,060
Value of home consumption (dollars)	154	5/	5,488	5/
Gross income (dollars)	6,627	5/	175,220	5/
Number of chicken farms	11,200	11,000	-	-

1/Data cover both farm and commercial operations, but exclude commercial broilers. Total of sales, home consumption, losses and on hand end of year equals total number of raised and on hand beginning of year. 2/Loss during year of chickens on hand December 1. 3/Does not include young chickens lost. 4/Production is the quantity available for utilization during the year, i.e., sales plus home consumption, plus or minus the change in inventory. 5/Data no longer published, beginning 1985.

AVERAGE NUMBER OF LAYERS ON HAND AND EGGS PRODUCED, OHIO 1984-85

Month	Layers		Eggs per 100 layers		Eggs produced	
	1984	1985	1984	1985	1984	1985
	Thousands		Number		Millions	
December 1/	12,580	14,195	2,202	2,142	277	304
January	12,905	14,340	2,170	2,155	280	309
February	13,125	14,175	2,019	1,947	265	276
March	13,350	13,955	2,187	2,157	292	301
April	13,500	14,125	2,141	2,081	289	294
May	13,575	14,130	2,210	2,180	300	308
June	13,750	14,080	2,102	2,124	289	299
July	13,680	14,050	2,142	2,157	293	303
August	13,725	13,960	2,179	2,120	299	296
September	13,965	14,115	2,077	2,040	290	288
October	14,170	14,500	2,032	2,097	288	304
November	14,275	14,945	1,982	2,074	283	310
Total	13,545 2/	14,213 2/	254 3/	253 3/	3,446 4/	3,596 4/

1/December preceding year. 2/Average per year. 3/Total egg production divided by average number of layers on hand. 4/Totals for year.

EGGS: PRODUCTION, DISPOSITION AND INCOME, OHIO AND UNITED STATES, 1984-85

	Ohio		United States	
	1984	1985	1984	1985
Eggs produced (million eggs)	3,445	3,592	68,230	68,407
Home consumption (million eggs)	16	2/	390	2/
Eggs sold (million eggs)	3,429	2/	67,840	2/
Price per dozen (cents)	64.9	42.0	72.3	57.1
Cash receipts (1,000 dollars)	185,452	2/	4,087,773	2/
Value of home consumption 1/ (1,000 dollars)	865	2/	23,147	2/
Value of production (1,000 dollars)	186,317	125,720	4,110,920	3,252,519

1/Valued at same price as eggs sold. 2/Data no longer published beginning 1985.

CHICKENS: NUMBER OF OPERATIONS WITH HENS AND PULLETS OF LAYING AGE AND PERCENT, OHIO, DECEMBER 1, 1984-85

	Hens and pullets of laying age											
	3,000-9,999		10,000-19,999		20,000-49,999		50,000-99,999		100,000+		Total 3,000+	
	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985
Operations 1/	67	60	28	26	36	31	17	16	25	24	173	157
Pct. of HPLA	2	2	2	2	8	6	9	9	75	77	96	96

1/Independent operations and contractors.

BROILERS: PRODUCTION AND GROSS INCOME, OHIO AND UNITED STATES, 1984-1985 1/

	Ohio		United States 2/	
	1984	1985	1984	1985
Number produced (thousand head)	9,000	9,000	4,282,391	4,478,749
Pounds produced (thousand pounds)	37,800	37,800	17,862,944	18,850,790
Price per pound 3/ (cents)	29.0	25.5	33.7	30.1
Value of production (thousand dollars)	10,962	9,639	6,017,504	5,680,188

1/Broiler production including other meat-type breeds. Based on broilers hatched December 1 previous year through November 30, current year. 2/Excludes States producing less than 500,000 birds. 3/Live weight equivalent price.

TURKEYS: PRODUCTION AND GROSS INCOME, OHIO AND UNITED STATES, 1984-85

	Ohio		United States	
	1984	1985	1984	1985
Heavy and light breeds raised 1/ (thousand head)	2,800	2,800	171,296	185,282
Pounds produced 2/ (thousand pounds)	71,120	71,120	3,385,248	3,702,081
Price per pound 3/ (cents)	50.0	48.0	48.9	49.1
Value of production (thousand dollars)	35,560	34,138	1,655,256	1,818,743

1/Based on turkeys hatched September 1, previous year through August 31, current year. Breakdown by breeds combined to avoid disclosing individual operations. 2/ Includes home consumption. 3/Live weight equivalent price.

1985 PRICES AND ECONOMIC DATA

AVERAGE PRICES: SELECTED COMMODITIES, OHIO, 1984-85 1/

Commodity	Unit	1984	1985	Commodity	Unit	1984	1985
		Dollars				Dollars	
Corn for grain	Bu.	2.59	2.45	Cattle	Cwt.	54.80	50.40
Soybeans	Bu.	5.84	5.15	Cows	Cwt.	37.70	36.60
Wheat	Bu.	3.31	3.00	Steers & heifers	Cwt.	59.50	54.40
Oats	Bu.	2.05	1.15	Calves	Cwt.	52.40	55.20
All hay	Ton	74.50	59.00	Sheep	Cwt.	17.30	34.90
Rye	Bu.	3.50	3.30	Lambs	Cwt.	59.20	66.90
Tobacco - all	Lb.	1.81	1.529	Wool	Lb.	.550	.450
Burley (31)	Lb.	1.89	1.59	Farm chickens	Lb.	.137	.190
Other (42-44)	Lb.	.90	.87	Commercial broilers 4/	Lb.	.290	.255
All potatoes	Cwt.	5.60	4.45	Turkeys	Lb.	.500	.480
Sugar beets	Ton	23.60	2/	Eggs, all	Doz.	.649	.420
Apples	Lb.	.161	.139	Milk, wholesale, all	Cwt.	13.50	12.80
Peaches	Lb.	3/	3/	Milk eligible for			
Grapes	Ton	214	127	fluid market	Cwt.	13.63	12.90
Hogs	Cwt.	48.30	44.40	Milk, mfg. grade	Cwt.	12.30	11.60
Sows	Cwt.	41.30	38.20	Milk cows 5/	Head	830.00	810.00
Barrows & gilts	Cwt.	49.00	44.80				

1/Crops, season average price; chickens and hogs, December-November season average price; other items, annual average price. 2/Not available. 3/No significant production. 4/Live weight equivalent price. 5/For milk herd replacements.

INDEXES OF PRICES RECEIVED BY FARMERS, OHIO, CONSUMER PRICE INDEX, AND PRODUCER PRICE INDEX, U.S., 1984-85

Month	All farm products		Lvstk. & lvstk. prices		All crops 1/		Consumer (CPI)		Producer (wholesale)	
	1984	1985	1984	1985	1984	1985	1984	1985	1984	1985
	1977=100						1967=100			
January	136	122	137	133	136	112	305	316	308	310
February	135	121	139	132	132	111	307	317	309	309
March	137	120	139	128	136	113	307	319	311	309
April	140	119	139	125	141	114	309	320	311	309
May	141	116	138	122	143	110	310	321	312	310
June	138	116	136	124	140	109	311	322	311	310
July	135	113	137	121	133	105	312	323	312	309
August	130	108	135	119	124	99	313	324	311	307
September	125	105	132	118	119	93	315	325	310	306
October	121	107	130	124	112	91	315	326	309	308
November	123	109	135	124	111	96	315	327	310	310
December	120	112	131	126	109	98	316	327	310	310

1/Includes indexes for major crops, fruit, potatoes and vegetables.

PRICES PAID FOR FEED, BY MONTHS, OHIO, 1984-85

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
					Hog feed, 14-18% protein, per cwt.							
1984	13.10	11.80	12.50	12.00	11.70	11.40	11.30	11.40	11.00	10.50	10.20	10.10
1985	10.20	10.10	9.80	9.30	9.60	9.40	9.80	9.30	9.30	9.30	9.70	9.40
					Hog concentrate, 38-42% protein, per cwt.							
1984	17.40	16.50	16.80	16.70	16.30	16.10	15.40	14.90	14.40	14.30	14.00	13.90
1985	13.90	13.70	13.40	12.90	12.70	12.30	12.40	12.50	12.80	12.90	13.70	13.30
					Beef cattle concentrate, 32-36% protein, per cwt.							
1984	15.50	15.00	14.50	15.00	14.50	14.50	14.00	13.50	13.00	13.00	12.50	12.60
1985	12.60	12.40	12.40	12.00	11.50	11.60	11.80	11.90	12.00	12.50	13.00	12.90
					Dairy feed, 16% protein, per ton							
1984	220	215	210	215	205	205	190	192	188	182	180	175
1985	175	174	172	167	172	170	170	168	167	167	172	175
					Dairy feed, 32% protein, per ton							
1984	320	300	295	305	300	285	265	265	255	250	245	240
1985	230	230	230	220	230	220	225	220	220	225	240	235
					Laying feed, per ton							
1984	200	200	205	200	199	200	190	190	189	181	180	173
1985	173	173	170	170	169	175	177	171	164	155	165	160
					Turkey grower, per ton							
1984	225	225	230	230	250	245	230	230	225	225	215	215
1985	215	215	205	205	205	215	220	205	200	210	215	196

FEED PRICE RATIOS, BY MONTHS, OHIO, 1984-85

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
					Egg-feed ratio 1/							
1984	8.5	9.1	7.3	9.0	7.0	5.5	5.3	5.1	5.0	4.5	5.7	5.0
1985	4.5	4.6	5.4	4.9	4.3	4.3	4.5	4.7	5.0	6.1	6.1	6.5
					Hog-corn ratio 2/							
1984	15.2	14.2	14.1	13.9	13.8	14.3	15.9	16.0	15.5	17.1	19.3	19.3
1985	18.6	18.1	16.0	15.1	15.3	17.0	17.3	17.7	18.5	21.2	19.6	19.5
					Milk-feed ratio 3/							
1984	1.25	1.25	1.28	1.24	1.28	1.27	1.37	1.38	1.44	1.54	1.59	1.61
1985	1.61	1.61	1.58	1.58	1.51	1.45	1.45	1.44	1.46	1.50	1.47	1.46

1/Pounds of feed equal in value to 1 dozen eggs. 2/Bushels of corn equal in value to 100 pounds of hog, live weight. 3/Pounds of 16% dairy feed equal in value to 1 pound of whole milk.

PRICES RECEIVED BY FARMERS: SELECTED COMMODITIES, BY MONTHS, OHIO, 1984-85

Commodity and year	Unit	Jan.	Feb.	Mar.	Apr.	May	Jun.
		Dollars					
CORN							
1984	Bu.	3.24	3.25	3.29	3.47	3.50	3.55
1985		2.61	2.67	2.70	2.73	2.66	2.67
SOYBEANS							
1984	Bu.	7.80	7.33	7.68	7.94	8.31	7.99
1985		5.90	5.81	5.89	5.94	5.70	5.69
WHEAT							
1984	Bu.	3.50	3.22	3.40	3.57	3.49	3.39
1985		3.40	3.39	3.46	3.39	3.25	3.11
OATS							
1984	Bu.	2.33	2.40	2.32	2.30	2.23	2.27
1985		2.20	2.16	2.10	2.10	1.98	1.85
ALL HAY							
1984	Ton	96.00	96.00	100.00	94.00	99.00	74.00
1985		69.00	76.00	70.00	73.00	66.00	64.00
ALFALFA HAY							
1984	Ton	111.00	111.00	111.00	100.00	106.00	78.00
1985		79.00	80.00	77.00	77.00	70.00	70.00
OTHER HAY							
1984	Ton	78.00	73.00	87.00	86.00	88.00	64.00
1985		58.00	65.00	62.00	62.00	55.00	50.00
ALL POTATOES							
1984	Cwt.	9.60	8.80	8.80	8.00	8.50	-
1985		6.15	6.80	6.85	7.00	7.00	-
HOGS							
1984	Cwt.	49.10	46.20	46.40	48.20	48.40	50.80
1985		48.60	48.10	43.30	41.10	41.60	45.50
CATTLE, ALL BEEF							
1984	Cwt.	49.10	56.10	59.20	54.10	59.10	58.40
1985		52.60	52.10	52.00	52.50	52.00	52.10
COWS							
1984	Cwt.	34.90	39.00	41.50	41.20	41.40	40.80
1985		37.70	40.10	40.00	39.90	40.00	38.70
STEERS & HEIFERS							
1984	Cwt.	57.20	61.40	64.00	58.50	62.00	60.80
1985		58.80	56.90	56.50	55.80	54.70	54.60
CALVES							
1984	Cwt.	51.30	59.20	57.10	53.10	57.80	55.10
1985		52.50	55.80	55.60	57.20	60.40	60.20
SHEEP							
1984	Cwt.	19.50	23.50	19.40	13.60	14.50	15.00
1985		29.30	31.00	24.60	21.50	32.90	31.30
LAMBS							
1984	Cwt.	60.70	60.70	61.10	63.30	62.60	55.60
1985		65.60	67.40	70.70	75.30	70.90	66.10
WOOL							
1984	Lb.	.470	.460	.480	.520	.570	.620
1985		.490	.470	.400	.380	.380	.400
EGGS							
1984	Doz.	.850	.910	.750	.900	.700	.550
1985		.390	.400	.460	.420	.360	.380
ALL MILK							
1984	Cwt.	13.80	13.40	13.40	13.30	13.10	13.00
1985		14.10	14.00	13.60	13.20	12.70	12.30
MILK, FLUID MARKET							
1984	Cwt.	13.90	13.50	13.50	13.40	13.20	13.10
1985		14.20	14.10	13.70	13.30	12.80	12.30
MILK, MFG. GRADE							
1984	Cwt.	12.60	12.50	12.70	12.30	11.90	11.90
1985		12.80	12.70	12.60	12.30	12.10	11.80
MILK COWS 1/							
1984	Head	-	800.00	-	-	840.00	-
1985		-	820.00	-	-	820.00	-

1/For replacement dairy stock.

PRICES RECEIVED BY FARMERS: SELECTED COMMODITIES, BY MONTHS, OHIO, 1984-85 (cont-d)

Commodity and year	Unit	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
		Dollars					
CORN							
1984	Bu.	3.37	3.25	3.06	2.64	2.54	2.53
1985		2.64	2.45	2.18	2.06	2.26	2.37
SOYBEANS							
1984	Bu.	6.93	6.58	6.15	6.10	6.03	5.81
1985		5.47	5.15	4.99	4.87	4.95	5.11
WHEAT							
1984	Bu.	3.30	3.27	3.30	3.30	3.38	3.35
1985		2.97	2.78	2.63	2.74	3.06	3.25
OATS							
1984	Bu.	2.04	2.01	2.09	2.01	2.12	2.12
1985		1.34	1.04	0.99	0.89	1.12	1.07
ALL HAY							
1984	Ton	69.00	86.00	74.00	75.00	82.00	77.00
1985		52.00	52.00	50.00	53.00	58.00	60.00
ALFALFA HAY							
1984	Ton	74.00	90.00	90.00	90.00	93.00	85.00
1985		63.00	60.00	60.00	60.00	70.00	70.00
OTHER HAY							
1984	Ton	54.00	78.00	64.00	47.00	55.00	68.00
1985		40.00	40.00	40.00	45.00	45.00	50.00
ALL POTATOES							
1984	Cwt.	15.60	5.75	4.90	4.75	4.70	5.70
1985		3.65	3.65	4.40	4.30	5.50	4.80
HOGS							
1984	Cwt.	53.40	52.30	47.60	45.10	49.10	48.90
1985		45.80	43.30	40.40	43.70	44.20	46.20
CATTLE, ALL BEEF							
1984	Cwt.	58.00	55.90	54.20	52.10	51.60	49.20
1985		47.90	47.60	48.20	50.80	48.90	49.70
COWS							
1984	Cwt.	39.20	39.70	36.00	36.10	33.50	35.20
1985		36.60	35.10	33.40	32.50	33.00	33.70
STEERS & HEIFERS							
1984	Cwt.	61.50	59.70	58.00	56.30	56.90	56.10
1985		50.30	50.40	51.30	55.00	55.70	56.40
CALVES							
1984	Cwt.	52.90	50.90	50.60	51.40	47.00	50.20
1985		54.70	55.20	53.30	54.70	53.60	50.40
SHEEP							
1984	Cwt.	17.20	18.60	17.30	16.90	17.30	19.00
1985		45.60	45.00	40.50	31.90	40.50	33.70
LAMBS							
1984	Cwt.	55.70	56.30	57.30	57.40	60.40	61.90
1985		66.90	64.30	65.90	64.80	67.00	64.50
WOOL							
1984	Lb.	.570	.550	.550	.570	.500	.550
1985		.400	.400	.410	.380	.380	.400
EGGS							
1984	Doz.	.500	.480	.470	.410	.510	.430
1985		.400	.400	.410	.470	.500	.520
ALL MILK							
1984	Cwt.	13.00	13.10	13.50	13.90	14.30	14.10
1985		12.30	12.10	12.20	12.50	12.60	12.80
MILK, FLUID MARKET							
1984	Cwt.	13.20	13.30	13.70	14.10	14.40	14.20
1985		12.30	12.10	12.20	12.50	12.70	12.80
MILK, MFG. GRADE							
1984	Cwt.	11.80	11.90	12.20	12.70	13.00	13.00
1985		11.80	11.80	12.00	12.20	12.10	12.20
MILK COWS							
1984	Head	860.00	-	-	830.00	-	-
1985		820.00	-	-	780.00	-	-

BALANCE SHEET OF THE FARMING SECTOR, OHIO AND UNITED STATES, DECEMBER 31, 1983-84 1/

Item	Ohio		United States	
	1983	1984 2/	1983	1984 2/
		Thousands		
Farms				
Assets	Million dollars		Billion dollars	
Total farm assets	31,329.1	26,246.6	1,061,379.5	955,846.6
Real estate 3/	22,815.2	17,790.8	797,971.7	693,732.1
Livestock and poultry 4/	975.6	1,007.6	49,677.5	49,646.7
Machinery and motor vehicles 5/	3,875.8	3,640.7	105,796.0	99,380.0
Crops 6/	1,122.7	1,238.4	33,235.6	33,731.8
Household Equipment & Furnishings	792.6	745.2	24,438.0	26,116.0
Financial assets	1,747.1	1,823.9	50,260.7	53,239.9
Claims				
Total farm debt	5,247.5	5,141.1	216,245.4	212,548.5
Real estate debt 7/	3,123.1	3,071.1	112,621.6	111,637.0
Nonreal estate debt 8/	1,989.4	1,942.9	92,822.8	92,192.5
CCC loans 9/	135.0	127.0	10,801.0	8,719.0
Equity	26,081.6	21,105.5	845,134.2	743,298.0
Ratios		Ratios		
Equity/assets	83.3	80.4	79.6	77.8
Debt/equity	20.1	24.4	25.6	28.6
Debt/assets, total	16.7	19.6	20.4	22.2
Debt/assets, real estate	13.7	17.3	14.1	16.1
Debt/assets, nonreal estate and CCC	25.0	24.5	39.3	38.5
Net Farm Income/debt 10/	0.4	19.0	N/A	N/A

1/Data are for farms with sales of $1,000 or more annually. 2/Preliminary. 3/Excludes value of operator dwelling. 4/Excludes horses, mules, and broilers. 5/Includes only farm share value for trucks and autos. 6/All crops held on farms, including crops under CCC and crops held off farms by farm operators. 7/Excludes debt on operator dwellings. 8/Excludes debt for nonfarm purposes. 9/Commodity Credit Corporation (CCC) loans secured by crops, and storage and drying facilities owned by farmers. 10/Debt in this ratio is an average for the year.

Source: Economic Indicators of the Farm Sector, Income and Balance Sheet Statistics, 1984.

PRICES PAID FOR FUELS: BY MONTHS, OHIO, 1984-86

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Gasoline, service station, (unleaded), per gallon												
1984	1.21	1.20	1.22	1.22	1.22	1.20	1.22	1.18	1.19	1.19	1.19	1.15
1985	1.13	1.09	.990	1.21	1.23	1.20	1.22	1.20	1.19	1.15	1.17	1.19
1986	1.16											
Gasoline, bulk delivery, (leaded regular), per gallon												
1984	1.16	1.17	1.17	1.17	1.18	1.17	1.15	1.14	1.14	1.14	1.14	1.12
1985	1.08	1.07	1.10	1.15	1.16	1.17	1.18	1.17	1.15	1.13	1.16	1.16
1876	1.13											
Diesel fuel, per gallon												
1984	1.03	1.09	1.05	1.02	1.03	1.03	1.03	1.02	1.02	1.03	1.01	1.02
1985	1.00	.990	.990	.990	1.00	.980	.950	.950	.980	1.00	1.06	1.08
1986	1.06											
L.P. gas, bulk delivery, per gallon (United States)												
1984	.773	.777	.772	.768	.763	.754	.747	.747	.749	.754	.758	.761
1985	.742	.739	.735	.733	.730	.725	.719	.703	.699	.705	.722	.764
1986	.774											

FARM INCOME STATEMENT OF U.S. AND OHIO AGRICULTURE, 1983 AND 1984

Item	Ohio		United States 1/	
	1983	1984 2/	1983	1984 2/
		Million dollars		
Farm income				
Gross farm income:				
Cash receipts from farm marketings	3,615	3,611	136,260	141,835
Government payments to farm operators and landlords	176	232	9,295	8,430
Home consumption of farm products	28	37	973	988
Rental value of farm dwellings	434	414	12,122	11,900
Other farm income 3/	40	47	2,539	3,046
Total realized gross farm income	4,293	4,341	161,188	166,200
Production costs:				
Feed bought	464	457	21,261	20,412
Livestock bought, except horses and mules	67	60	8,814	9,469
Seed bought 4/	132	156	2,987	3,548
Fertilizer and lime bought	315	363	7,646	8,896
Repairs and operation of capital items 5/	501	505	14,931	14,978
Wages for hired labor (cash and perquisites) 6/	181	186	9,788	10,070
Miscellaneous 7/	699	711	27,560	29,205
Total current farm operating expenses	2,359	2,438	92,988	96,580
Depreciation and other consumption of farm capital 8/	867	845	23,490	23,020
Taxes on farm property	132	134	4,323	4,407
Interest on mortgage debt	323	320	10,815	10,733
Net rent and government payments to nonoperator landlords 9/	114	169	4,010	4,757
Total production expenses	3,796	3,907	135,626	139,496
Net farm income before inventory adjustment	497	434	25,562	26,704
Net change in farm inventories	-478	552	-10,565	7,827
Total net farm income after inventory adjustment	19	986	14,997	34,530
Number of farms (thousand)	92	90	2,370	2,333
Total gross farm income per farm (dollars)	46,663	48,233	68,012	71,239
Total net farm income per farm (dollars) 10/	207	10,956	6,328	14,801
		Percent		
Net farm income as percent of gross 10/	0.4	22.8	9.3	20.8
Net farm income as percent of previous year 10/	5.1	5,189	60.2	230

1/Includes Alaska and Hawaii. 2/Preliminary. 3/Machine hire and custom work and recreational income. 4/Includes bulbs, plants, and trees. 5/Repairs and maintenance of buildings, repairs and operation of motor vehicles and other machinery, and petroleum fuel and oil used in the farm business. 6/Includes cash wages, perquisites, and social security taxes paid by employers. 7/Includes binding, Federal Crop Insurance, containers, dairy supplies, electricity, greenhouse and nursery products, grazing fees, harness and saddlery, net insurance premiums (fire, wind, and crop hail), irrigation, livestock marketing service (excluding feed and transportation), milk hauling, miscellaneous hardware (including blacksmithing), machine hire and custom work, miscellaneous livestock and poultry supplies, pesticides, small handtools, short-term interest, telephones (business share), veterinary services and medicines (plus insemination) and other miscellaneous. 8/Includes depreciation and accidental damage to farm buildings and depreciation of motor vehicles and other farm machinery and equipment. 9/After subtracting taxes, mortgage interest and other expenses paid by landlords. 10/Net farm income after inventory adjustment.

Source: Economic Indicators of the Farm Sector: Income and Balance Sheet Statistics, 1984.

NONREAL ESTATE FARM DEBT OUTSTANDING (including operator households), OHIO DECEMBER 1,1974-1984

YEAR	DEBT OWED TO REPORTING INSTITUTIONS (excluding CCC)				DEBT OWED TO INDIVIDUALS AND OTHERS	TOTAL EXCLUDING CCC LOANS	PRICE SUPPORT & STORAGE LOAN MADE OR GUARANTEED BY CCC	TOTAL INCLUDING CCC LOANS
	ALL OPERATING BANKS	PRODUCTION CREDIT ASSOC.	FEDERAL INTERMEDIATE CREDIT BANKS	FARMERS HOME ADMINISTRATION				
	MILLION DOLLARS							
1974	276	399	4	15	207	901	8	909
1975	315	476	2	16	248	1058	9	1067
1976	347	561	4	14	279	1206	17	1223
1977	410	666	6	15	325	1421	71	1492
1978	454	769	8	36	356	1622	71	1693
1979	482	871	9	61	403	1825	60	1885
1980	474	909	10	95	454	1942	114	2056
1981	505	979	11	114	491	2100	138	2238
1982	543	811	12	214	520	2099	282	2381
1983	591	650	13	236	500	1989	135	2124
[illegible]	[illegible]	[illegible]	16	287	477	1943	127	2070

REAL ESTATE FARM DEBT OUTSTANDING (including operator households), OHIO DECEMBER 1,1974-1984

YEAR	FEDERAL LAND BANKS	FARMERS HOME ADMINISTRATION	LIFE INSURANCE COMPANIES	ALL OPERATING BANKS	INDIVIDUALS AND OTHERS	TOTAL
	MILLION DOLLARS					
1974	366	39	89	322	426	1242
1975	453	42	90	330	461	1375
1976	547	44	103	377	498	1569
1977	660	48	135	432	557	1832
1978	793	54	192	449	610	2097
1979	953	102	252	457	710	2474
1980	1112	115	298	470	769	2764
1981	1313	142	310	464	809	3039
1982	1387	152	299	449	815	3103
1983	1371	176	294	459	823	3123
[illegible]	[illegible]	203	287	464	762	3071

OHIO - 1985 FARM FINANCE SURVEY RESULTS

HIGHLIGHTS FROM THE SURVEY SAMPLE

Ohio farm debt/asset ratio for all farms lower than other Midwest States. 1/

Thirty percent of farmers with gross sales greater than $40,000 had debt/asset ratios larger than 40 percent and many of these have serious financial stress.

Ohio debt/asset ratio was largest for young farmers with large farms in western and central Ohio.

Ohio's farms had 57 percent of their total income earned from off-farm income sources.

Dairy farms had the highest net cash income for 1985.

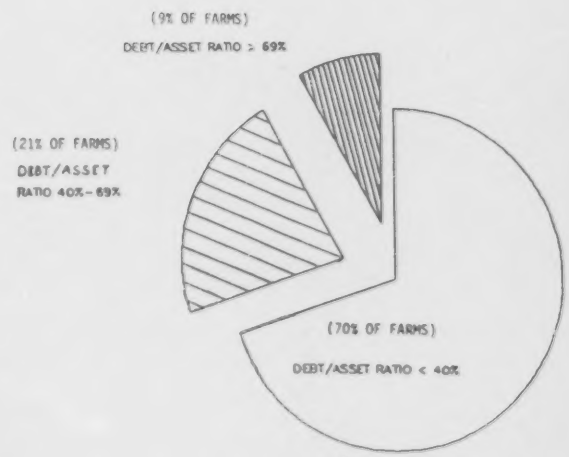
Beef farms had the lowest net cash income for 1985.

Farms with more than 1,000 acres operated reported the highest loan delinquency rate.

Nearly 50 percent of Ohio farmers are over 55 years of age. Twenty percent are age 65 or older.

1/Debt/Asset ratio - Total debts owed by a farm (principal portion) divided by the total assets value of the farm, machinery, livestock, grain on hand, etc.

OHIO 1985 FARM DEBT/ASSET RATIO FOR FARMS WITH $40,000 TO $499,999 IN SALES



U.S. AGRICULTURAL EXPORTS CONTINUE TO DECLINE

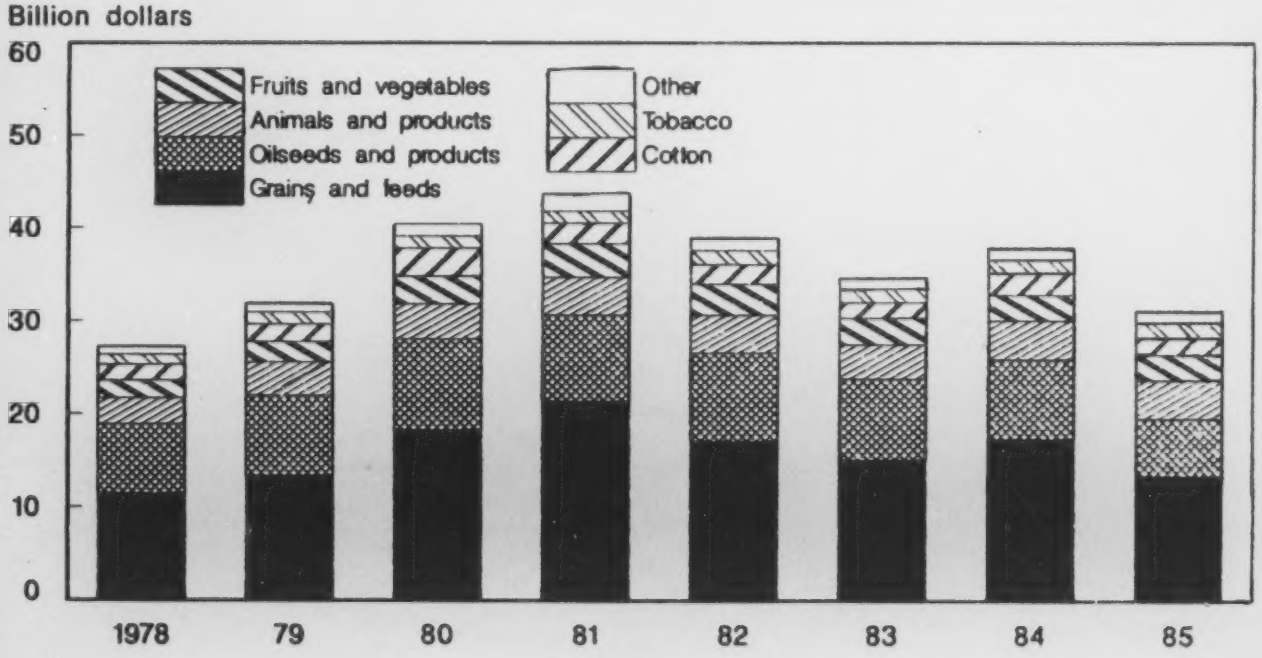
The value of United States agricultural exports, at $31.2 billion, fell 18 percent in fiscal year (FY) 1985 (October 1, 1984-September 30, 1985). The sharp decline was a result of both lower export volume and lower prices. Rising world production boosted foreign supplies and reduced prices for wheat, coarse grains and soybeans. Total volume for FY 1985 was 126 million metric tons, a 12 percent drop from FY 1984.

The rising world production and strong U.S. dollar led to a smaller U.S. export share in world markets. Unfortunately, these problems may continue to plague U.S. exports in at least the first half of FY 1986. Preliminary estimates for the first quarter of FY 1986 show a 22 percent decline from FY 1985.

The largest declines in export value for U.S. farm commodities in FY 1985 were reported for wheat and soybeans, at 33 and 32 percent respectively. The largest increase in value was for tobacco which showed an 11 percent increase over FY 1984.

Ohio farmers are heavily dependent on the volume and value export trading for their farm income. More than 30 percent of Ohio's agricultural production is destined for world markets.

Value of U.S. Agricultural Exports, Fiscal Years 1978-85



VALUE OF EXPORT SHARES 1/ OF AGRICULTURAL COMMODITIES, OHIO AND U.S., FISCAL YEARS 1981-85

Year ended Sept 30	Wheat and products	Feed Grains and products 2/	Soybeans and products 3/	Tobacco unmfd	Fruits and preps	Vegetables and preps	Feeds and fodder	Seeds
				MILLION DOLLARS				
				OHIO				
1981	266.5	690.8	607.6	7.1	7.1	17.6	15.9	5.8
1982	243.4	317.1	420.4	8.9	4.8	17.1	15.1	6.0
1983	137.8	393.9	472.9	10.9	5.5	18.3	15.4	6.7
1984	142.5	467.8	484.3	9.2	3.2	22.2	16.5	6.5
1985	83.0	432.4	389.5	12.4	3.7	20.2	17.3	7.1
				UNITED STATES				
1981	8,051.7	11,149.9	8,042.3	1,338.5	1,513.2	1,445.7	519.5	290.2
1982	7,675.1	7,685.1	8,429.9	1,486.5	1,394.1	1,442.1	600.7	299.1
1983	6,223.1	7,342.8	7,776.4	1,487.2	1,374.3	989.5	563.3	333.0
1984	6,783.2	9,076.0	7,548.1	1,432.7	1,270.2	998.5	550.0	325.9
1985	4,525.8	7,584.9	5,267.7	1,587.9	1,200.1	945.8	473.3	353.3

VALUE OF EXPORT SHARES 1/ OF AGRICULTURAL COMMODITIES, OHIO AND U.S., FISCAL YEARS 1981-85 (continued)

Year	Live animals and meat ex poultry	Hides and skins 4/	Poultry and products	Fats oils and greases	Dairy products	Other 5/	Total
			MILLION DOLLARS				
			OHIO				
1981	30.5	13.6	12.4	13.9	8.3	33.6	1,730.7
1982	27.8	14.6	11.1	12.5	12.8	19.7	1,131.2
1983	24.9	15.8	9.4	11.1	11.5	23.5	1,157.5
1984	21.3	20.8	8.6	12.4	12.3	24.1	1,251.8
1985	19.9	19.7	8.8	10.2	11.3	22.6	1,058.0
			UNITED STATES				
1981	1,180.0	1,002.0	765.2	756.2	237.7	7,488.0	43,780.1
1982	1,230.3	1,021.2	579.0	701.6	367.8	6,182.0	39,094.5
1983	1,187.8	997.5	451.1	593.2	348.9	5,101.4	34,769.5
1984	1,205.9	1,317.8	412.8	703.2	393.5	6,009.0	38,026.8
1985	1,160.9	1,324.6	392.8	607.9	413.2	5,348.5	31,186.7

1/The export shares for Ohio were derived from the State's contribution to national output. They do not show actual State exports, but instead reflect the prorated stake in the national export total. 2/Includes corn, barley, oats, grain sorghum and other coarse grain products. 3/Soybeans, soybean meal, and soybean oil. 4/Distribution of furskins to the State prorated level includes mink pelts. 5/Other includes rice, sunflower seed and oil, peanuts and products, cotton and linters, cotton-seed and products and tree nuts which were listed separately for U.S. but which are not estimated for Ohio. Also includes other products estimated for Ohio and the U.S. but not listed above.

VALUE OF U.S. FOREIGN TRADE AND TRADE BALANCE, (AGRICULTURAL AND TOTAL) - OCTOBER-SEPTEMBER 1984-85

	Agriculture Trade					Total Trade		
Year	Agriculture Exports	Agriculture share of Total	Agriculture Imports	Agriculture share of total	Agriculture Trade balance	Total Exports 1/	Total Imports 2/	Total Trade balance
	Mil. Dollars	Percent	Mil. Dollars	Percent		Million Dollars		
1981	43,780	19	17,218	7	26,562	229,203	254,687	-25,484
1982	39,095	18	15,481	6	23,614	215,405	248,834	-33,429
1983	34,769	18	16,271	7	18,498	194,142	246,900	-52,758
1984	38,027	18	18,916	6	19,111	208,041	316,652	-108,611
1985	31,187	15	19,740	6	11,447	210,440	333,603	-123,163

1/ Domestic exports. 2/ Imports for consumption, customs value basis.
Source: Foreign Agricultural Trade Supplement of the United States. Fiscal Year 1985 Supplement.

OHIO DEPARTMENT OF AGRICULTURE
1985 ANNUAL REPORT

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Ohio Department of Agriculture Organization Chart	Inside Back Cover

DIVISION OF ADMINISTRATION
Gloria Williams, Deputy Director

The operation of this main division is to provide support for the seven operating divisions of the Department of Agriculture. It performs basic functions of administration including: fiscal management, personnel, public relations, legal services, data processing, and departmental management. The Administration Division also is responsible for the operation and maintenance of the Ohio Department of Agriculture laboratory complex, at 8995 East Main Street, Reynoldsburg, Ohio 43068. Relative to the Personnel Section of the Division of Administration, we now have a written Affirmative Action Plan and an Aggressive Affirmative Action Program. Since January 10, 1983 - June 30, 1985, we have employed 33 qualified minorities. Although we are not satisfied with the number of minority employees hired in the Department, we are proud of the accomplishments we have made.

The Personnel Section has been responsible for dealing with the substantial changes that are eminent in the change from the traditional Civil Service System to the New Public Employees Collective Bargaining System. We were fortunate to find an attorney with a substantial background in labor relations to perform not only legal functions for the Department, but to serve as the Department's Labor relations representative as well.

Over the past two years in the area of fiscal management, we have acquired two additional computers, making a total of three computers, which are on line with the Computer System at the State Office Tower. The additional computers better facilitate fiscal and personnel needs.

EMPLOYEES BY DIVISION

701	Administration	38
701	Animal Industry	58
703	Foods, Dairies & Drugs	44
704	Markets	45
705	Plant Industry	66
706	Weights & Measures	16
707	Meat Inspection	199
708	Fairs & Amusement Ride Inspection	15
709	Grain Warehouse	16
*TOTAL EMPLOYEES		497

RULES

During 1985, the Department promulgated a number of new rules. Ohio produces a number of vegetable crops that are harvested by migrant workers. While in the fields, these workers are exposed to dangerous pesticides and there is virtually no protection for these individuals. The Department, therefore, promulgated regulations to control and limit this exposure.

As a result of new legislation, the Department was able to promulgate rules to establish a program for registering livestock brands. Rules are also now in effect creating a program for identification numbers for personal property. This program will not only aid law enforcement in recovering stolen property but will also discourage theft.

New legislation governing amusement rides also became effective in 1985. In order to be prepared for the fair season, a set of rules regarding these rides was first promulgated by emergency order. During the summer, the rules were redrafted and refined to improve clarity. This permanent set became effective March 20, 1986.

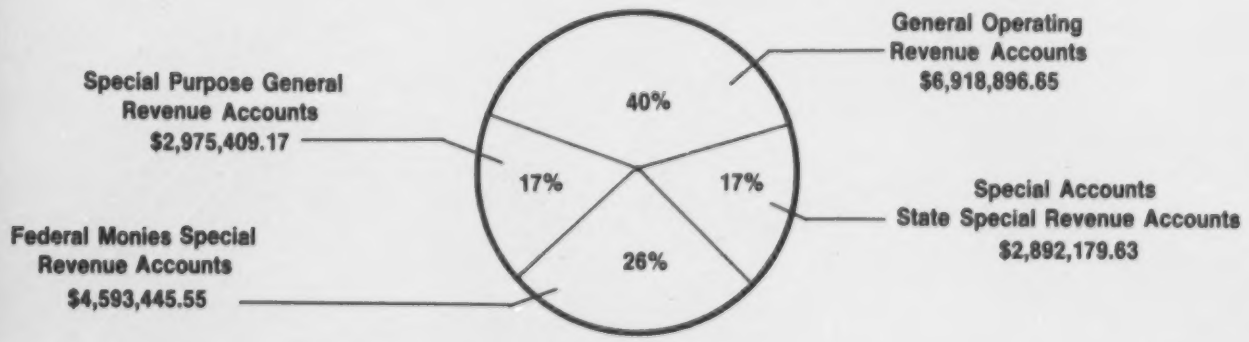
STATEMENT OF EXPENDITURES
FISCAL YEAR 1985
OPERATING EXPENSES

FUND 11	GENERAL REVENUE FUND
401 Aujeskys Disease	$ 121,575.61
405 Rodent Control	23,316.51
499 Meat Inspection (State Match)	2,687,019.05
501 County Agricultural Societies	139,498.00
TOTAL SPECIAL PURPOSE ITEMS	$ 2,975,409.17
GRAND TOTAL EXPENDITURES ALL FUNDS	$17,379,931.00

STATEMENT OF EXPENDITURES
FISCAL YEAR 1985

FUND 11	GENERAL REVENUE FUND
701 Administration	$2,079,346.74
702 Animal Industry	1,513,050.36
703 Foods, Dairies & Drugs	941,556.47
704 Markets	175,824.73
705 Plant Industry	1,570,432.73
706 Weights & Measures	409,079.55
708 Fairs & Amusement Ride	229,606.07
TOTAL OPERATING EXPENDITURES	$6,918,896.65

*Includes salary, fringe benefits, maintenance and equipment



SPECIAL ACCOUNTS

602	Poultry and Dairy Products	$1,058,610.93	
603	Fruits and Vegetables	317,271.01	
604	AgriOhio	3,250.00	
612	Agricultural Commodity Program	532,592.52	
	(01-Apple, 02-Beef, 3-Turkey, 04-Egg)		
625	Meat Contract Inspection	51,156.27	
626	Ohio Grape Industries Program	661,135.65	
627	Commodity Handlers Program	268,163.25	
	SUB TOTAL		$2,892,179.63
	FUND 10 FEDERAL SPECIAL REVENUE FUND		
601	Cooperative Contracts	996,020.46	
617	Ohio Farm Loan Revolving Fund (Rural Rehabilitation)	190,184.12	
618	Meat Inspection(Federal Match)	3,407,240.97	
	SUB TOTAL		$4,593,445.55
	TOTAL SPECIAL ACCOUNTS		$7,485,625.18

OHIO DEPARTMENT OF AGRICULTURE
DATA PROCESSING OPERATIONS

Jobs run	1,110
Records entered	218,665
Lines printed	4,412,466
Envelopes addressed	24,000
applications addressed	25,600
Labels addressed	151,000
Pesticide recertification cards	3,000
Vet. notices	1,500
Grain Warehouse receipts	1,000

LICENSES:

Pesticide	8,197
Apiary	6,557
Frozen Dessert	1,069
Milk Weigher sampler	864
Bakery	4,151
Frozen Food	985
Grain Warehouse Handlers	362
Grain Warehosue testers	238

TOTAL EMPLOYEES:	
Data entry Operators	2
Programmer/Analyst	2
Computer operator	0
TOTAL	4

DIVISION OF ADMINISTRATION
Robin Burton Anderson, Administrative Assistant
and Lab Coordinator

Women Liaison Advisory Committee: established to address and study the concerns of Women in Agriculture. Members represent; Farm Bureau, Farmers Union, Young Farm Wives, Women in Ohio Agriculture, and National Farmers Organization.

Agriculture Awareness and Education Task Force: phase one (input and research to determine targets) complete: phase two (project selection classroom education project and media workshop for Ag organizations) being implemented

The 100 year - 3rd generation Family Farm Book also includes ODA history and is currently being printed.

Capital Improvements--received approval for renovation of grounds keeper house, foundation repair to fire escape on building one, roof for building seven, lab ventilation hood repairs in buildings three and four.

Vehicles: purchase of thirty-six vehicles (1985)
purchase of fifty-six vehicles (1984)

URBAN CONSUMER AFFAIRS
Bernie Cobb

The Ohio Department of Agriculture's Urban Consumer Affairs office started June 6, 1984. The major thrust of the office was directed at, but not limited to, golden age and day care centers, nutrition sites, family planning organizations, church and civil groups. The functions and goals of this office is to provide the services needed to the urban consumer, promote an understanding of the agricultural industry, and to file complaint of a consumer who feels they have received a product that is less than wholesome or if there is a problem with the food product involving mislabeling, short weight, adulteration, false advertising, or unfair sale prices and questions concerning a food product. It will not only involve food products, but pesticide complaints and unfair measurement complaints such as LP gas, firewood, scales, etc. This office has also accomplished a great deal through seminars, community meetings, and coordinated presentations.

During the past year, it has provided training and technical assistance to numerous of day care centers, headstart programs, golden age centers, nutrition sites, and other organizations as well. This office has also been involved in promoting career development programs through public schools, job fairs, public career fairs, and seminars.

At the present time, we are in the process of updating our resource library with food-related pamphlets, booklets, and other visual films.

URBAN CONSUMER AFFAIRS OFFICE - 1985 ACTIVITIES

	Personal Conferences, Telephone Calls, etc.	Speaking Engagements	Total Organizations	Average Audience
Social Service Organizations, Golden Age & Day Care Centers, etc.	176	136	312	36
Public, Private and Religious Schools	42	15	57	93
Government Federal, State, County & Local Agencies	23	3	26	6
Others Resident, tenant, organizations, newspapers	25	12	37	30
Radio (WCRF) three fifteen minute interviews				
Business Firms	10	2	12	20
Incoming calls, referrals to Federal State, County and Local Agencies	22			
Requests for state maps, 1985 Fair Schedules, Job applications, food pamphlets, etc.	36			
Consumer Complaints - Food Related	12			
Non-Food Related	2			
Referrals to the Cuyahoga County Cooperative Extension Service	18			

AGRICULTURAL FINANCING COMMISSION

J. Anthony Logan, Executive Director

The Ohio Agricultural Financing Commission (OAFC) was created and authorized by the 115th General Assembly (H.B. 826) and officially began its operation on January 11, 1985. The Commission's primary function is to issue tax-exempt revenue bonds to private lending institutions, thereby generating money which Ohio's farmers can borrow at low interest rates. Farmers may then use the money to acquire and improve agricultural land and equipment.

The Commission consists of nine members: Director Steven D. Maurer, Ohio Department of Agriculture; Director Clarence Pawlicki, Ohio Department of Development; Mary Ellen Withrow, Treasurer, State of Ohio; Joseph Brubaker, Member; Judith Hall, C.P.A.; Glenn Lackey, Member; James Lewis, Vice Chairman; Francis Less, Member Joseph Luby, Member; Lori Panda, Secretary. By law, the Directors of the Department of Agriculture, Department of Development and the State Treasurer are members. The other six members are appointed by the Governor. The Executive Director of the Commission oversees the Commission's day to day business.

To issue agricultural revenue bonds, the Commission engages in a two-step process. First, the Commission meets to review the farmer's application for an issuance of a bond.

The Commission will discuss the applicant's intended use of the money with the applicant and then vote on whether or not the applicant's intended project may be funded with agricultural revenue bonds. This first step is known as "inducement," and merely gives notice to the farmer-applicant that his project is eligible for agricultural revenue funding.

The farmer may then attempt to finalize the terms of a loan agreement with his private lending institution, which must agree to purchase the bond.

The second step of the issuance process is the actual issuance of the bond. Once the farmer (applicant) has finalized his arrangements with a lending institution and has entered into an agreement to purchase the property in question, the Commission will meet and vote on the actual issuance of a bond. If the Commission approves, an agricultural revenue bond will be issued to the farmer's (applicant) bank, and the farmer will secure an agricultural revenue bond loan.

In 1985 thirteen applications were processed for Commission action. Approximately five additional applications were forwarded to the Commission, but were not processed due to incompleteness. The Commission received approximately 250 requests for applications and information during 1985.

The Commission held six meetings in 1985. In August 1985, the Commission held a banker's informational workshop to explain the operation of the program to Ohio's banking community. Represenatives from 30 lending institutions attended the meeting. During the course of the year, approximately 25 additional bankers requested information on this program. There were formally nine issued agricultural revenue bonds worth a total of $2,595,000 and 4 bonds induced - $665,000 and the total Commission Action is $3,260,000. Each bond that was issued funded a single project.

In addition, the Commission induced, but has not yet approved, four bonds worth a total $665,000. It is expected that these bonds will be issued early in 1986. Each of the induced bonds will fund a single project.

Of the nine projects funded with agricultural revenue bond loans, three were for the purchase of farmland, five were for the construction of poultry operations, and one was for the construction of a greenhouse.

In November 1985, the U.S. House Ways and Means Committee voted to continue authorization for small issue, private purpose revenue bonds for agriculture. This bill, if approved by the U.S. Senate, would allow for continued operation of the OAFC through the foreseeable future. If the U.S. Senate does not act, the authorization for the program will expire December 31, 1986.

To maximize Ohio farmer's access to this valuable credit tool, the OAFC plans an aggressive promotion program in 1986. Total commission action of $25 - $40 million is foreseen.

Amount: $800,000; **Date Induced:** 5/7/85; **Date Issued:** 8/8/85
Issued To: First National Bank of Northwest Ohio
Farmer-Applicant: Cooper Turkey Hatchery, Oakwood, Ohio
Project Funded: Construction of eight turkey hatching facilities in Putnam and Paulding County, Ohio

Amount: $250,000; **Date Induced:** 5/7/85; **Date Issued:** 12/20/85
Issued To: The Park National Bank, Granville, Ohio
Farmer-Applicant: Timbuk Farms, Inc.
Project Funded: Construction and renovation of greenhouses in Licking County, Ohio

Amount: $180,000; **Date Induced:** 8/8/85; **Date Issued:** 10/31/85
Issued To: Citizens Commercial Bank & Trust, Ft. Recovery, Ohio
Farmer-Applicant: C & E Turkey Farm, Mercer County Ohio
Project Funded: Construction of two turkey finishing facilities in Mercer County, Ohio

Amount: $420,000; **Date Induced:** 8/8/85, **Date Issued:** 10/31/85
Issued To: Second National Bank, Greenville, Ohio
Farmer-Applicant: Premier Turkey Farm, Ft. Recovery, Ohio
Project Funded: Construction of a turkey growing facility in Darke County, Ohio

Amount: $450,000; **Date Induced:** 10/31/85; **Date Issued:** 12/20/85
Issued To: Second National Bank, Greenville, Ohio
Farmer-Applicant: Kissinger Brothers Poultry, Versailles, Ohio
Project Funded: Construction of an egg laying operation in Darke County, Ohio

Amount: $100,000; **Date Induced:** 10/31/85; **Date Issued:** 12/20/85
Issued To: Farmers State Bank & Trust, New Madison Ohio
Farmer-Applicant: Melvin & Darlene Benedict, Greenville, Ohio
Project Funded: Purchase of 40 acres of land in Darke County, Ohio

Amount: $120,000; **Date Induced:** 10/31/85; **Date Issued:** 12/20/85
Issued To: Farmers State Bank & Trust, New Madison Ohio
Farmer-Applicant: Richard & Frances Schmitz Rossburg, Ohio
Project Funded: Purchase of 110 acres of land in Darke County, Ohio

Amount: $135,000; **Date Induced:** 10/31/85; **Date Issued:** 12/20/85
Issued To: Farmers State Bank & Trust, New Madison Ohio
Farmer-Applicant: Wayne & Theresa Grote, Greenville, Ohio
Project Funded: Purchase of 80 acres of land in Darke County

Amount: $140,000; **Date Induced:** 10/31/85; **Date Issued:** 12/20/85
Issued To: Citizens Commercial Bank & Trust, Celina, Ohio
Farmer-Applicant: Paul & Virginia Fortkamp, Ft. Recovery, Ohio
Project Funded: Construction of a bird layer-house

BONDS NOT YET ISSUED:

Amount: $250,000; **Date Induced:** 5/28/85
Farmer-Applicant: Clayton Houck, Monroeville, Ohio
Project Funded: Purchase of new farm machinery

Amount: $90,000; **Date Induced:** 8/8/85
Farmer-Applicant: Wesley L. Garrett, Norwalk, Ohio
Project Funded: Purchase of a new combine

Amount: $100,000; **Date Induced:** 8/8/85
Farmer-Applicant: Royce & Virginia Ganz, New London Ohio
Project Funded: Purchase of a new combine

Amount: $225,000; **Date Induced:** 12/20/85
Farmer-Applicant: John Fortkamp, Ft. Recovery, Ohio
Project Funded: Construction of a poultry starter house

TOTALS:

9 bonds issued - $2,595,000.00
4 bonds induced - $ 665,000.00

TOTAL COMMISSION ACTION: $3,260,000.00

DIVISION OF CRIMINAL INVESTIGATION

Jim Thompson, Chief

FOOD STAMP TRAFFICKING UNIT

The Food Stamp Trafficking Unit (FSTU) was formed based upon a contract between the United States Department of Agriculture's Food and Nutrition Service (FNS), the Ohio Department of Human Services (O.D.H.S.) and the Ohio Department of Agriculture (O.D.A.). Based upon this contract, the FSTU is the Statewide enforcement unit for food stamp fraud and trafficking. ODA is the only such agency nationwide with such a program by contract.

Since the implementation of the FSTU in September 1984, our department has consisted of one criminal investigations supervisor, four criminal investigators, and one administrative secretary under the direction of the Chief of Criminal Investigations, Jim Thompson.

The majority of the referrals for investigation have come at the request of Federal, State, County, and Municipal agencies. FSTU personnel have gained an expertise in the field of food stamp investigation and are duly respected by law enforcement departments.

We have had the opportunity to investigate a variety of complaints, from recipient frauds to all types of trafficking cases.

During the 1984-85 year, we have received 236 recipient, 3 internal, and 226 trafficking cases for a total of 465 cases. Of these, 219 have been closed, either by prosecution, and administrative hearings, or deemed unfounded cases. Most of the referrals have come from Franklin and Cuyahoga Counties.

From the date of initiation of the Food Stamp Trafficking Unit through December 31, 1985, we have initiated 613 cases. The status of those cases are as follows:

Closed cases	219
Pending Court Action	71
Actively Working	119
Not assigned to investigator	204
TOTAL	613

MAJOR TRAFFICKING OPERATIONS

Columbus - An undercover operation involving food stamp trafficking resulted in 22 people being charged with 41 felony charges.

Mansfield - An undercover operation involving food stamp trafficking resulted in 52 felony charges being filed against 22 individuals.

Cleveland - An undercover operation there will result in 20 individuals and 3 businesses being charged with 37 felonies and 5 misdemeanors for food stamp trafficking.

USDA/FNS referred a report to our department concerning an alleged armed robbery of a Food Stamp Issuance Center in Cleveland that happened in July 1984. It was reported that $52,593.00 in food stamps and $15,999.00 in cash had been stolen. Investigation by our department in conjunction with the Cleveland Police Department resulted in the owner pleading guilty to Robbery, Attempted Grand Theft, and Theft in Office. Three other men pled guilty to Robbery and Possession of Criminal Tools. This was an attempt to cover up shortages in his food stamp supply.

At the request of and in assistance with the Franklin County Human Services, our department located and was responsible for the court appearance of a former Franklin County woman who pled guilty to Grand Theft and made full restitution of $26,771.00, the largest restitution recovered in Franklin County.

After investigating a complaint from Franklin County Human Services, our department located and had arrested in Minneapolis, Minnesota, a man who had been drawing General Relief and Food Stamps in Franklin, Muskingum, and Summit County simultaneously. He had also been wanted by the Wayne County Sheriff's Department for three years on drug charges. He had twenty-two known aliases, and had 11 phony social security cards and 40 phony birth certificates and blank rent receipts on his person when arrested.

After receiving complaints, our department made several arrests of persons who were standing inside and/or outside of a food stamp issuance centers, and actually getting into a bidding war while buying food stamps from recipients who just received their allotment.

During our first year, our department has been requested to investigate suspected fraud by three different Human Services employees. Two of these resulted in employee resignations and the other one was also ultimately indicted by OIG on theft charges.

As a result of our undercover operations, several of these investigations also resulted in liquor violations. We have been cooperating with the Ohio Department of Liquor Control on these matters.

COMPLIANCE & EVALUATION (C&E)

The Section is comprised of three investigators and one supervisor.

This Section began in 1985 with 199 pending investigative complaints.

During the course of the year, 241 new complaints/allegations were received. Investigators closed out 203 complaint files ehding the year with 237 pending complaints. The 203 completed complaints breakdown as follows:

Eighty (80)-Amenability Review Determinations were done for Meat Inspection. These Reviews document the "nature of business" of firms engaged in Meat Inspection related activities. If the firms' operations are subject to the Meat Inspection Act, they must apply for and come under Meat Inspection, or cease the operations subject to the Act. If voluntary compliance is not obtained, prosecution action is taken.

Fifty-one (51) complaints were elevated to full case investigations.

DIVISION BREAKDOWN:

7 - Administration
7 - Animal Industry
2 - Food, Dairies & Drugs
0 - Markets
11- Plant Industry (Pesticides - 9)
7 - Weights & Measures
10- Meat Inspection
2 - Grain Warehouse
5 - Ride Inspection

Of the 51 cases, 27 could not be resolved with voluntary compliance, so prosecution was undertaken. A 100 percent conviction rate was obtained with one case in Kettering Municipal Court being dismissed by the Judge prior to trial.

Thirty-eight (38) violations were documented with Notices of Violation/Warning Letters being issued by Compliance Officers in compliance with the Department's voluntary compliance warning policy. 33 complaints were found to be unfounded or sufficient evidence was not available for further enforcement action.

Three hundred and four (304) consumer complaints were handled.

The Department's Meat Inspection Title II program resulted in 38 embargos for adulteration and/or misbranding totalling 172,504 pounds of foodstuffs taken off sale. There were 1,379 Planned Compliance Program (PCP) and random reviews; and 54 Evaluation Incident Reports. This program was reviewed by Federal reviews and they found the program met all criteria required by the Meat Inspection Act.

The Compliance Staff made 634 person to person contacts. The 151 special projects, such as Disaster Service Agency projects, training, dignitary security, Ohio State Fair, etc. Department employees were involved in 27 automobile accidents, up from 23 in 1984.

The Criminal Investigation Division continues to act as the Department's liaison with the Disaster Service Agency. Five team members received initial training in nuclear disaster with previously trained members attending refresher training. The team's response to the May, 1985 tornado disaster resulted in a letter of commendation from General Galloway.

The Brand Registration Program went into full operation, which provides for the registering of livestock brands and a numbering system used to identify machinery, grain, equipment and household goods with the Department.

During the last quarter of 1985 the Section entered into several extensive fraud type investigations which will be carried over into 1986. These investigations included two Grain Warehouse fraud investigations, several pesticide enforcement cases, a cooperative investigation with the Federal Office of Investigations from Pennsylvania on an interstate meat transportation operation. Other cases are in various states of completeness.

DIVISION OF GRAIN WAREHOUSE

Fred Arnold, Chief

The Grain Warehouse Division licenses commodity handlers and administers Chapter 926 of the Ohio Revised Code. This includes administering the agricultural commodity depositors special account (indemnity fund).

The Division has a staff of five office personnel and eight field examiners. The administrative duties of office personnel include: review and issuance of licenses,scheduling and review of field examinations, review of licensee financial statements, handling of license fees and indemnity fund fees, handling written and telephone correspondence, preparation of, and follow up on, action to correct violations of the Revised Code, maintaining a current data base on all licensees on Division computer, and issuing and monitoring the use of warehouse receipts. The field examiners audit the grain records and measure the grain inventory of the licensee to determine if the licensee's obligations to producers are covered as required by the Revised Code. The examiners have the additional repsonsibilities such as checking licensed testers, accounting for warehouse receipts, checking quality of grain, and issuing violation notices.

The balance in the indemnity fund was approaching the $4 million level after the fees for the third quarter of 1985 were deposited and it was clear that the fourth quarter fees would increase the balance to well over that amount. Therefore, the divison recommended that collection of the fee be discontinued as of January 1, 1986. The Director approved the recommendation and all licensees were so notified.

Three additional warehouse examiners were hired to bring the field staff to eight examiners. One of the new examiners hired replaced an examiner who went on disability retirement and the other two were to expand the staff.

The Grain Warehouse Division and the State of Ohio hosted the annual meeting of the American Association of Warehouse Control Officials at the Ramada Inn, Reynoldsburg, Ohio July 21-25, 1985. Representatives from 21 states including Ontario, Province, Canada took part in the meeting. The U.S. Department of Agriculture (ASCS) and representatives of the grain industry and bonding insurance companies also took part in programs presented.

The Division took preliminary steps toward a cooperative agreement with USDA to examine Ohio grain elevators who have an uniform Grain Storage Agreement with ASCS, Commodity Credit Corporation. Under this agreement, division examiners would make the examinations for ASCS at the present time both our examiners and the federal examiners are examining these elevators under the agreement the USDA would pay in examination fee to the division for conducting the exams.

The Division conducted two examination training seminers-one in July and one in October, to improve the capabilities and knowledge of the grain warehouse examiners.

The Commodity Advisory Commission members are: Ralph Bornhorst, Jesse C. Curtis, Jane Johnson, Ellen Ricketts, John W. Sharp, Jay C. Snook; and Joe Whitney.

The Grain Warehouse Division had seven licensees become insolvent during Calendar Year 1985, as follows:

Buckeye Grain Company - Toledo, Ohio
Carter Feed & Grain, Inc. - Frankfort, Ohio
H.C. Attebery & Assoc., d.b.a. Rushville Feed & Supply
Rushville, Ohio
Mowrystown Grain, Inc. - Mowrystown, Ohio
Seville Elevator Company - Seville, Ohio
Standard Elevator & Supply Company - Chillicothe, Ohio
Thornville Elevator, Inc. - Thornville, Ohio

In addition, Harvey Grain in Waynesville, Ohio, closed with no losses to producers or claims against the Indemnity Fund. Buckeye Grain Company (above), however, closed with losses to other commodity handlers only.

Claims were paid from the Indemnity Fund in five insolvencies during 1985, as follows:

Mowrystown Grain, Inc. - $91,067.12
Sharrock Elevator, Inc. (insolvent in 1984) - $7,570.50
Standard Elevator & Supply Co. - $77,894.85
Thornville Elevator, Inc. - $22,477.76
Van Aken Elevator, Inc. (insolvent in 1984) - $5,882.79

It has been determined that there will be claims from the Rushville Feed and Supply insolvency.

In the matter of Seville Elevator, Inc., which became insolvent in Fiscal Year 1985, the department thus far has been unable to come to an agreement with the receiver concerning the settling of claims.

COMPARATIVE SUMMARY OF RECEIPTS AND EXAMINATIONS

	CALENDAR YR. 1985	CALENDAR YR. 1984
Commodity Handler License Fees	$ 180,148.12	$ 176,462.37
Number of Handler Licenses Issued	705	707
Total Monies Available in Indemnity Fund	$3,655,921.01	$ 957,923.51
Interest Earned on Indemnity Fund	$ 320,948.12	$ 98,890.94
Balance in Treasure's Account 498	$3,976,869.13	$1,056,814.45
Claims Against the Indemnity Fund	84	341
Total Amount Paid in Claims	$ 204,892.67	$1,677,369.53
Number of Warehouse Examiners	9	6
Number of Warehouse Examinations Completed	658	750
Violation Notices Issued	48	69

DIVISION OF WEIGHTS & MEASURES

Jim Truex, Manager

In Ohio the Director of Agriculture is the State Sealer of Weights and Measures. A Deputy State Sealer (Chief of the Division of Weights and Measures) is appointed by the Director and is responsible to the Director for the administration and enforcement of all weights and measures laws of the Ohio Revised Code. The office of the chief of weights and measures and the state metrology laboratory, where the state's primary mass, length and volume standards are housed, are both located at the Department's laboratory facility in Reynoldsburg.

Presently, the Division of Weights and Measures has the responbility of implementing seven major programs.

Metrology - Ohio's metrology lab is well equipped and the personnel capable of performing the routine testing, calibrations and specialize requests with a high degree of technical and professional competence. The laboratory is a participant in the Laboratory Auditing Program administered by the National Bureau of Standards. The laboratory and state metrologists have also participated in the Northeast Measurement Assurance Program and its round-robin activities since the conception of the program in 1979. The chief of weights and measures and laboratory personnel are presently working with the National Bureau of Standards' Office of Weights and Measures to insure compliance with the "certification by measurement area" program. A laboratory quality assurance program has been implemented. The Division recognizes the need to continually upgrade the staff training, measurement equipment and overall laboratory competence.

This year 7,348 official, commercial or scientific standards were submitted to the metrology laboratory for testing or calibration. The lab performed service for 156 different companies, 62 local jurisdictions in Ohio and 4 other governmental agencies.

Advise, Assist, and Train - There are 88 counties and 12 cities in Ohio that have established weights and measures programs. All the local jurisdictions check small capacity scales and gasoline pump meters. Many of the jurisdictions reweigh packages and some check parking meters, taxi meters and investigate local complaints.

The Director of Agriculture, his Deputy State Sealer, and Sealers advise and assist these local sealers in their powers and duties. Under provisions of the Ohio Revised Code the State shall provide for the training of local weights and measures sealers and may establish minimum training requirements.

The Deparment assists the local weights and measures jurisdictions through the following programs:

Vehicle Scales - Ohio has six larger capacity scale testing units. Two of the units are tractor trailer rigs that carry 40,000 pound of calibrated test weight. One is a tandem axle unit that carries 20,000 pound of calibrated test weight. The other three carry 10,500 pound of calibrated test weight.

All of these units were used to test vehicle scales during this fiscal year with the exception of one of the 10,500 pound units which was not in service much of the time due to personnel limitations.

This year, 2,606 vehicle scales were inspected and tested. Of this number, 763 were rejected for repair or condemned for replacemnt for an overall rejection rate of 29.2 percent.

Livestock Scales - Due to time and personnel limitations no livestock scales were tested during FY 84 except for five special cases.

Fuel Meters - Ohio has a 1,000 gallon prover on wheels, two 100 gallon provers on trailers and a 100 gallon L.P. Gas prover. State weights and measures inspectors travel the state with these provers, inspecting and testing fuel delivery truck meters and bulk plant meters. During the last fiscal year 2,710 such meters were inspected and tested. Of this number, 1,154 required adjustments or were condemned for repair or replacement for an average (fuel meters and L.P. gas meters) rejection rate of 42.5 percent.

National Type Evaluation Program (NTEP) Laboratory - On April 1, 1985, the Ohio Weights and Measures Laboratory was certified by the National Bureau of Standards/Office of Weights and Measures (NBS/OWM) as an authorized NTEP laboratory. This achieved a goal set by the Department and approved by Governor Celeste and the Ohio Department of Development and Ohio's Scale Industry two years ago.

Ohio is known as the "Cradle of the Scale Industry" due to its large number of major scale manufacturers that distribute their devices worldwide. The Ohio Scale industry (100 companies employing approximately 3,100 with a $50 million dollar annual payroll) depends upon an effective, equitable state weights and measures program in order to compete profitably with industry from neighboring states and abroad. Ohio's NBS/OWM approved NTEP Laboratory serves Ohio industry by providing a center for the evaluation and approval of scale designs and other weighing measuring equipment.

The income generated by the type evaluations contributes to Ohio's economy and negates the present need to submit new devices to other states for type approval.

As an NTEP participant, Ohio establishes itself as a leader in the field of weights and measures. Only two other laboratories in the United States have NTEP authorization; one is the NTEP authorization; and is the NBS/OWM and the second is the State of California.

Package Control - Ohio has two weights and measures staff members assigned to check prepackaged commodities (fertilizer, meat, milk, produce, etc). Special assistance, specialized complaints and consumer complaints are also investigated under this program (short weight and short measure in firewood, kerosene, insulation, etc). In fiscal year ' 85, only 6 percent of all random pack packages checked were found to be either short weight or short measure.

However, it was not until 1974 that ODA/W&M began a viable package checking program. Then in 1976 the Department decided to use its two W&M supervisors for package checking. Up until this past year, Ohio's package checking efforts had been concentrated primarily in the area of prepacked meat and produce at the grocery store level. This program is important and has shown impressive results. In fact, the Department's computers indicate that the package rejection rate dropped from 30 percent in 1976 to its present level of 6 percent on this type of package.

The package control program did not include the checking of many types of consumer packages that were offered for sale in Ohio's marketplace. With this in mind, Division personnel met several times last year and decided what direction to take to improve the package control program. The Division saw a need for more knowledge and training; thus, the following major steps were taken to upgrade the package control program.

I. National Bureau of Standards Handbook 133 was instituted in Ohio. This document contains the latest technical procedures for "Checking the Net Contents of Packaged Goods."

II. Basic and advanced courses on Handbook 133 were taken, as was noted earlier.

III. Packers in violation of Ohio law are sent violation letters notifying them of the nature of the violation (short weight, improper lable, etc.).

IV. An examination procedure outlined for package checking was drafted and instituted into field use.

V. Training seminars have been held for local weights and measures officials on Handbook 133 so they may assist the state in package control.

VI. A listing of documented violations is a part of each "Quarterly Review" put out by the Division.

DIVISION OF WEIGHTS & MEASURES

Inspection Statistics

'85

Field Programs:

	Total Sealed	Total Rejected	Total Condemned	Total Tested	Total Known	Rejection Rate
Large Capacity Vehicle Scales	1,843	681	82	2,606	2,868	29.2%
State Patrol Vehicle Scales	19	2	0	21	21	9.5%

	Total Sealed	Total Adjusted	Total Condemned	Total Tested	Total Known	Rejection Rate
Fuel Meters (100 gallon)	1,860	454	328	2,188	2,315	35.7%
L.P. Gas Meters	445	295	77	522	626	71.2%

	Total Accepted	Total Rejected	Total Checked	Rejection Rate
Package Control (Random Pack)*	383,317	24,735	408,052	6.0%

*These inspections apply to all commodities, food and non-food packaged in advance of sales. The figures shown are a representation of packages in lots checked and do not represent the actual number of packages checked.

Metrology Laboratory:

	Total Sealed	Total Adjusted	Total Condemned	Total Tested	Rejection Rate
Ohio Highway Patrol Portable Wheel-Load Weighers	257	91	23	281	40.5%
Independent Law Enforcement Portable Wheel-Load Weighers	116	6	8	124	11.2%
Official	2,598	141	13	2,611	5.8%
Commercial	4,246	783	49	4,295	19.3%
Scientific	535	19	7	442	5.8%

Additionally, the Division has uncovered may problems in fluid dairy products (milk). Consequently, a considerable amount of time has been spent in this area. Likewise, two seminars were held for Ohio dairies on "The Testing and Control of Fluid Dairy Products" as an attempt to train and assist the packagers. Average error of failed lots is .122 fl. oz.

DIVISION OF MARKETS

Marty Miller, Acting Chief

The Division of Markets provides support services to Ohio's agricultural industry in the movement of foods and fibers from producers to consumers. These services include, but are not limited to, the grading, inspection, promotion, and market intelligence as Ohio commodities relate to world markets. To achieve the above objective, the Division interfaces with the state and U.S. commodity organizations, the USDA, and other state and local governments.

Market Development

As the name implies, the Division places emphasis on new product and new market development projects for Ohio. Much of the funding for these projects are industry shared, or matching funds from the USDA, or Department's Rural Rehabilitation funds.

The Division works closely with commodity groups established under Sec. 924 of the Revised Code which include: the Ohio Nursery Stock Marketing Program, Ohio Apple Marketing Program, Ohio Beef Marketing Program, Ohio Egg Marketing Program, and the Ohio Turkey Marketing Program as well as other commodity groups like the Ohio Pork Producers Association, Ohio Soybean Association, Ohio Corn Growers' Association, etc., to develop new products and markets. The Ohio Grape Industries Program was established to promote Ohio Grape products. The Purebred Show & Sale program was re-activated in fiscal year 1986.

Funding for commodity development projects are self imposed producers funds; the Grape Industries Program receives its monies from a 3 cent gallonage tax on wines sold in Ohio.

One major activity in the Division is the International Trade Program. This program is designed to foster international trade among the smaller signed businesses since growth in foreign markets is expected to double US rates during the 1980's. The Division achieves its objectives by sponsoring seminars, workshops, and individual firm counseling. The Division promotes international activities sponsored by the Foreign Agricultural Service and private enterprise. The Department has participated in trade missions and hosted trade missions to Ohio. Activities are coordinated through the Division.

Fruit and Vegetable Inspection

To maintain quality produce sold in Ohio, the Division of Markets has a cooperative agreement with the USDA to provide grading and inspection service. This program uses Ohio personnel who have the priviledge of placing USDA shields on products. Also, the packers of Agricltural Commodities Act (PACA) license to sell produce is administered by the Division. Commercial inspections for grade and/or condition provide the basis for orderly marketing of produce. Most of the state and federal institutions utilize these inspectors to insure quality of produce being delivered. During the harvest season additional graders are hired for grading of tomatoes, pickles, onions, and potatoes. Inspections include commercial, institution, and shipping points.

Poultry Grading

Poultry grading is another federal-state cooperative program where state personnel can place USDA shields upon products. Grading is a marketing service that established various levels of quality characteristics on poultry and dairy products. Grade factors enable the industry to have specific parameters on various quality factors and helps the consumer more readily identify products, shell eggs, dairy products, and rabbits. There is also a Hatchery Surveillance Program and an Egg Surveillance program to protect both producers and consumers.

Market News

The Division of Markets has three distinct programs: a) livestock, b) grain, and c) poultry. In the livestock program 15 concentration country and plant points are contacted daily to determine Ohio direct hog prices. Other livestock information includes other U.S. major terminal markets and direct country markets, beef markets both live and dressed trade, sheep markets, feeder calf and feeder pig markets.

Ohio cash grain markets are reported daily as well as future prices, Toledo and Cincinnati terminal prices, and basis prices along with trends and changes in prices. This is the most comprehensive Ohio grain market available in the state.

The poultry market news program is a federal-state cooperative program reporting Ohio egg prices, Ohio spent hen prices, broiler prices, duck prices, and dairy product prices. Because of the volume of eggs in Ohio and the excellent program, Ohio is a key state in the national egg pricing system. Timely reports is of essence in successful market news programs.

The major wire service, newspapers, and radio stations utilize these services. Virtually, all those involved in buying or selling grain, livestock, poultry, and poultry products use the services of Market News. Additional insurance companies, investment companies, and other government agencies collect market information.

Livestock Market News

Grain Calls - Approximately (23 per day)	5,733
Livestock calls - Approximately (50 per day)	12,550
Media calls - Livestock & Grain approximately	123,012
Poultry calls (80 per day)	19,200

Plants Participating

Poultry Media call (8 per day)	1,920
International Trade Leads (6 per day)	1,440

Produce Inspection Program

F & V Terminal Markets - Carlots	23,869,634 lbs.
" Less than Carlots	6,459,603
State Institutions	4,677,255
Federal Institutions	118,412
F & V Shipping Point	223,808,034
Processing Plants	975,532,000

Market News

Grain Calls (approximately 26 per day)	6,526
Livestock Calls (approximately 50 per day)	12,550
Media Calls (Livestock & Poultry) (approximately 10 per day)	1,250
Poultry & Egg Calls (Included are 210 Inquires	780

TRADE MISSION 2

TRADE LEADS 700

SEMINARS 10

Products inspected or graded by Poultry Grading Branch, Division of Markets.

Eggs Fresh (Shell)	10,032,089	30 doz. cs.
Liquid Egg (Frozen and Dried)	18,194,133	lbs.
Ready to Cook Poultry	57,888,969	lbs.
Cheese	6,746	lbs.
Evaporated Milk & Dehydrated Dessert Topping	7,67,964	lbs.

Shell Egg Plant Surveillance)

Number of surveillance visits made	532
Violations	23

DIVISION OF PLANT INDUSTRY
Dick Tootle, Chief

The Division of Plant Industry is comprised of six sections, each responsible for the enforcement of from one to three related laws, all having a biological basis. The purpose of these laws is to provide economic protection to the producer and the consumer.

Apiary Section

The purpose of the Ohio Apiary Inspection Program is to control and/or eradicate diseases affecting the honey bee. This is accomplished by the annual registration of apiaries by beekeepers and the inspection of these apiaries by trained inspectors, with state apiary inspectors supervising and assisting county-appointed inspectors.

All state inspectors on January 2-4 and January 8-11, 1985, traveled to the Reynoldsburg Laboratory to dissect honey bees. One hundred thirty-two field samples taken for tracheal mite infestation were prepared for laboratory observations. They were then mailed to the USDA bee lab in Baton Rouge, Louisiana, for identification. The results of these smaples disclosed one apiary in Trumbull County as a positive mite infestation.

A total of 10,799 applications for registration were mailed the week of March 18, 1985.

Judge Nicholas J. Walinski, U.S. District Court in Toledo, Ohio, ruled that Section 909.05 of the Ohio Revised Code, regarding right of entry was unconstitutional. The Ohio Department of Agriculture is restrained from conducting inspections of honey bee colonies unless consents or warrants are obtained. This ruling was made in favor of William and Caroline Allinder of Gibsonburg, Ohio. They said that inspection of colonies for bee diseases by the ODA violated their constitutional protection against unreasonable search and seizure.

It appears that obtaining beekeeper consents before inspecting interferred with the amount of field work accomplished. During August 1984, a total of 10,804 colonies and 1,917 apiaries were inspected, as compared to 3,522 colonies and 659 apiaries for 1985.

Administrative search warrant set up has progressed very favorably. Judge Bachman from Wood County, contributed his expertise toward the warrants' proper wording and set up.

The Apiary Section participated in the three-day Honey Festival in Lebanon, Ohio, September 5,6, and 7. An educational booth was erected free of charge for the Department's use. About 3,000 honey recipes were distributed to interested people in attendance. Many people, especially children, were interested in the live bee observation hive. This hive generated many questions about honey bees and beekeeping. The observation hive was also on display in the Department's tent at the Farm Science Review.

A new apiary inspection report and application for registration were designed by the State Apiarist. All apiary location information will be placed on computer, thus requiring the need for the change. The new forms should make it more convenient and efficient for both the inspectors and the beekeepers.

Apiaries moved interstate and queen rearing apiaries were examined for tracheal mite infestation during 1985. Positive finds were in 10 Ashtabula County apiaries, 1 Hancock County apiary and 14 Paulding County apiaries.

INSPECTION TOTALS		AFB QUARANTINED	DISEASED COLONIES DIAGNOSED		
Apiaries	Colonies	Apiaries	AFB-%	EFB-%	CB-%
9,203	58,173	219	494 - .85%	324 - .56%	380 - .65%

AFB-American foulbrood disease EFB-European foulbrood disease
CB-Chalkbrood disease

Feed and Fertilizer Section

This section administers Ohio's Commercial Feed Law, Fertilizer Law and Agricultural Liming Material Law, Anhydrous Ammonia Regulations and Agricultural Additive Law.

Feed and liming material manufacturers and distributors are licensed annually by calendar year. Fertilizer licenses and specialty fertilizer registrations are issued by fiscal year (July-June). A $5 license fee is charged for feed and fertilizer licenses. A liming material license is fifty dollars. Registration of specialty fertilizer (lawn and garden) is $50 per grade. Additive registration is $50 per year.

With the exception of the Agricultural Additive Law, all of the other laws provide for an inspection fee. The inspection fee for feed is 10 cents per ton, for fertilizer, 12 cents per ton and liming material is 1/4 of 1 cent for each ton of liming material in excess of 2,500 tons.

In 1985, there were 1,045 firms licensed to manufacture or distribute feed(s); 80 firms to distribute liming materials; and 667 firms to manufacture or distribute commercial fertilizers. Registrations were issued for 1,419 specialty fertilizer products and one agricultural additive.

A total of $516,493 was collected during this period for licenses, registrations, and inspection fees. This is an increase of 5.5 percent over the monies collected in 1984.

The office staff is responsible for issuing licenses, registering products and processing inspection fee reports. Product analysis bulletins and fertilizer tonnage sales reports are prepared semi-annually. The liming tonnage report is prepared annually. These reports are distributed to the county agents and depending on availability may be requested by contacting the Feed and Fertilizer Section.

A field staff of six inspectors inspect facilities and sample commodities of the licensed firm and registered products. One additional inspector works with the agricultural anhydrous ammonia industry to assist them in complying with the regulations. A total of 353 ammonia safety inspections were made in 1985.

This section is also under contract with the FDA to perform 220 annual directed inspections of feed mills, maufacturing medicated feeds for compliance to the Good Manufacturing Practices for the Manufacture of Medicated Feeds. The Total reimbursement from FDA for medicated feed inspections was $28,876.55.

Feed and Fertilizer Laboratory

The agricultural chemical laboratory analyzes animal feeds, fertilizers, liming materials, pesticides and toxicology samples. These analyses s are to insure the proper labeling of consumer and specialty products. Feeds are checked for protein, drugs, minerals, vitamins, trace elements and adulterants. Fertilizers are being tested for nitrogen, phosphorus, potassium and trace elements. Calcium, magnesium, total neutralizing power, and screen analyses are performed on agricultural liming materials.

The pesticide program is responsible for the chemical and physical analysis of products intended for use as insecticides, fungicides, rodenticides, herbicides, nematocides, animal and invertebrate repellents, plant growth regulators, defoliants, and disinfectants.

Toxicological samples are run to aid in the diagnosis of animal health problems. Some of the tests are lead, copper, arsenic, strychnine, mycotoxins and calcium, magnesium, and phosphorus on blood serum.

Pestsicide Regulation Section

The certification of private and commercial applicators under Ohio's plan approved by the United State Environmental Protection Agency, is still in effect. Certification is required of all applicators if they are to use those pesticides, which have either state or federal restricted uses. Certification requires training and taking and passing of written examinations in certain categories of pesticide application.

Approximately, 33,000 private applicators (growers of an agricultural commodity) have attended pesticide training sessions conducted by the Ohio State University Cooperative Extension Service since the certification program was initiated. This year, 637 new persons have been certified to use restricted-use pesticides. Since 1977 a total of about 21,843 persons have been certified as private applicators in Ohio with 12,654 still certified to use "Restricted Use" pesticides.

Four regional commercial-private pesticide applicator training sessions were held by the Cooperative Extension Specialists, and this Department during December for the required recertification. Certification is only valid for three years. Two sessions were also held in February for new commercial persons who wish to become licensed. A total of 2,685 persons attended the December sessions and 715 at the February sessions.

Ohio had 6,658 commercial pesticide applicators certified and licensed during 1985.

The County Agricultural Extension Agents held pesticide training and recertification sessions for private applicators in their respective counties. This Section's staff provided and monitored the certification examinations at more than 153 sessions. A total of 1,600 private applicators and 1,807 commercial applicators had taken examinations at these sessions. The field staff also provided part of the program at many of these sessions discussing Federal and State pesticide laws. Six special training and examination sessions were held at the request of Ohio industry associations.

New study materials were selected and obtained for certain categories in which applicants are licensed, as well as revision of two examinations. Two new categories were developed. The wood preservatives are to be restricted and persons are to be certified and licensed to use them-- the other category, Interior Plantscape was developed because this is a growing industry.

Pesticide products, which include sanitizers, germicides, insecticides, fungicides and herbicides are required to be registered if they are to be distributed in the state. During late winter and early spring, the field staff concentrated on visiting pesticide distributors and dealers who stock these products to assure that the products were registered and properly displayed to avoid contamination of the environment and food products. Products were randomly sampled for laboratory analysis to assure that they met labeled claims for active ingredients.

The annual pesticide product registration was completed with 1,082 companies registering 9,069 pesticide products for sale in Ohio. This is an increase of 182 products registered from the previous year.

The number investigated this year was similiar to last year of 400. These range from well contaminations, pesticide spills and drifts, to neighborhood feuds, and vandalism. Residue samples to support these investigations were collected and analyzed.

During this period two special "Section 18", or emergency and crisis use exemptions for specific pesticides were requested from and approved by U.S. E.P.A. with two denied. The specific uses of selected pesticides were issued for use on lettuce and onions. One request was withdrawn by the Department as additional information requested by E.P.A. was not available.

The required annual meeting of the Inter-agency Pesticide Advisory Council was held in December. The progress of the certification and recertification programs, the pesticide incidents and problems that have occurred, the special local need registrations and a discussion of the bulk pesticide regulations were included in the discussions.

Three special local needs or 24 cent registrations were issued for use as an herbicide on corn and alfalfa.

Plant Pest Control Section

For the 1985-1986 licensing year, Ohio had 1,224 licensed nurseries with 12,135 acres of nursery stock inspected. The Ohio inspection staff consisted of seven field inspectors, three field supervisors, and one plant pathologist.

Summer inspections were routine, the only major pest outbreak being pine needle scale. Another prominent problem was winter injury to many types of plants such as boxwood, viburnum, and many species of shrubs and deciduous trees. During the winter of 1984-85, there were three nights of minus 25 degrees temperatures, with one night as low as minus 28 degrees.

Black Vine Weevil continues to be the number one economic insect pest in Ohio. The other top nursery pests are as follow:

INSECTS	DISEASES
1. Black Vine Weevil	1. Leaf Spots
2. Pine Needle Scale	2. Powdery Mildew
3. Fall Webworm	3. Apple scab
4. Spruce Spider Mite	4. Gymnosporangium rusts
5. Fletcher Scale	5. Crown gall
6. Japanese Beetle	6. Cankers
7. Two-spotted Spider Mite	7. White pine root decline
8. Cooley Sprucegall Adelgid	8. Tar spot
9. Birch Leafminer	9. Verticillium wilt
10. Honeylocust Spider Mite	10. Phytophthora root rot

Near the latter part of the year, an infestation of Egyptian Cottonworm, Spodoptera Littoralis, was discovered at an Akron greenhouse. The grower had imported some geranium cuttings from Israel in early October and apparently some eggs of this exotic pest accompanied the shipment. An Emergency Action Order was placed on the greenhouse and the owners slowly gained control of the infestation. The Order was released on April 5, 1986.

Gypsy Moth

The Ohio Department of Natural Resources and the Ohio Department of Agriculture personnel working cooperatively conducted eradication treatments at four sites in Ohio last May. The sites ranged in size from 35 - 600 acres for a total of 800 acres. Each site was treated twice with SEVEN-4-oil by heliocopter, each application about two weeks apart. The treatments went off smoothly without any significant problems to report. Subsequent pheromone surveys of the four sites indicated that the eradication objective was apparently successful. There have now been 39 isolated Gypsy Moth infestations in Ohio treated and eradicated over the past 12 years.

In Darke County, on the Indiana line, an isolated and well-defined infestation was not treated but utilized instead to help evaluate the new "inherited sterility" technique developed by the APHIS lab at Otis AFB. Approximately 39,000 lab-produced egg masses were released within this 50 acre site. These hatched and developed in syn-chrony with the native Gypsy Moths, but upon reaching maturity, both sexes were totally sterile. In theory, the high ratio of sterile to non-sterile moths should drastically reduce the chances for viable egg masses being produced. This season's pheromone survey supported this contention, as only one virile moth was trapped at the site.

Summer pheromone surveys of the state were conducted cooperatively by USDA/APHIS and ODA, utilizing seasonal employees. A total of 15,000 traps were placed throughout Ohio with emphasis on limiting previous sites and new detection in high-risk areas. Male moth catches exceeded 2,700, but the majority of these were recorded from extreme northeast Ohio where some natural spread is just beginning to occur. Approximately 1,300 moths were captured in Ashtabula County, bordering Lake Erie and the State of Pennsylvania.

Two egg masses were subsequently found in the county. There appears to be five areas in Ashtabula County that are harboring light populations of the Gypsy Moth, but several of these may be fairly extensive in size. Severe winter temperatures have probably prevented a more rapid buildup of the population and at the same time, hampered our attemps to accurately deliniate the problem area.

Export Certification

Export of raw or unprocessed agricultural commodities must be certified free of injurious insects, diseases, and other pests such as weed seeds, nematodes, snails, etc. in order to protect the importing country's agricultural industry. The inspection and certification of Ohio products for the export market is conducted largely by the Plant Pest Control inspection force. Some grain is inspected at the Lake ports by federal inspectors. Commodities certified and exported from Ohio during 1985 were:

barley	50,000 lbs.	logs	7,331
barrel staves	124 skids	lumber	3,720,000 bd. ft.
chinkapin seeds	8 oz.	mung beans	46,000 lbs.
corn cobs	49,000 lbs.	nursery stock	132,614 plants
corn, field	1,551,142 lbs.	oats	136,000 lbs.
corn (seed)	40,700 lbs.	popcorn	15,818,000 lbs.
corn, sweet	49,000 lbs.	soybeans	529,846 lbs.
cucumber seeds	21 lbs.	soybeans (seed)	925,000 lbs.
grass seed	7,260 lbs.	tomato plants	1,024
greenhouse plants	500,000	tomato seed	300 lbs.
hay	108,000 lbs.	wheat	631,962 lbs.
legume inoculant	250 lbs.	wood chips	23,102 lbs.

The barrel staves were from used whiskey barrels, (charred on the inside) for re-use in Spain and parts of South America to age, flavor, and darken sherry and rum.

All together, sixty-six foreign countries were the recipients of Ohio exports.

Canada	561	Grenada	5	South Korea	1
West Germany	174	Philippines	5	Ethiopia	1
Italy	104	Jamaica	5	Nicaragua	1
Spain	73	Malaysia	4	Canary Islands	1
Japan	61	Panama	4	Dubai	1
South Africa	56	Indonesia	4	Honduras	1
Belgium	42	Egypt	4	United Arab Emirates	1
England	40	Finland	4	Ireland	1
St. Vincent	24	Lebanon	3	Chile	1
Netherlands	19	El Salvador	3	Czechoslovakia	1
Saudi Arabia	15	Australia	3	Ecuador	1
Venezuela	14	Dominican Republic	3	Kuwait	1
France	12	Israel	3	Bahrain	1
Portugal	11	Thailand	3	Antiqua	1
Denmark	9	India	3	Paraguay	1
Switzerland	8	Cameroun	3	Haiti	1
Trinidad	7	Costa Rica	2	Belize	1
Turkey	7	Oman	2	Singapore	1
Puerto Rico	7	Hong Kong	2	Norway	1
Taiwan	7	Malta	2	Cyprus	1
Morocco	7	Mexico	2	Greece	1
Algeria	6	New Zealand	1	Romania	1

Seed Section

During the calendar year 1985, personnel considerations probably played the most important role in the activities of the Seed Section. One man left early in the year leaving the section with only two analysts. Another man was transferred from the Feed Fertilizer lab, who had to be trained and we were still so short that Service work had to be curtailed.

The industry's attention was attracted by the curtailing of services and an industry committee sought help from the Department. This effort resulted ultimately in the hiring of a well-qualified person who has given our production a considerable boost.

Germination equipment has needed replacing and efforts to resolve this problem were launched.

A part of the Seed Law providing for Packet Seed Tax Stamps went into effect with the start of the 1985 season and we discovered that reporting actual sales and paying the appropriate fees has cut into our revenue. Roughly 40 percent of packet seeds offered for sale are returned at the close of the season. This allows the permit holder to claim only actual sales instead of having to purchase stamps in sufficient quantity to cover all seeds on display without provision for credit for the return of unsold seed.

A procedure was established for the supervising of seed sales at bankruptcy auctions and this lead to plans for Plant Industry Section heads to address the annual meeting of the Ohio Auctioneers Association.

Soybean germination testing in the greenhouse was carried on again and a varietal test plot was established and managed by Rosselott at the Southern OARDC branch at Ripley.

The Section head was able to carry out his responsibilities to important state and national seed-related organizations with which he is involved. These include the Association of Official Seed Analysts, the Association of American Seed Control Officials, the Association of Seed Certification Officials, the Ohio Seed Dealers Association and the Ohio Seed Improvement Association.

PLANT INDUSTRY LABORATORY
FEED & FERTILIZER LABORATORY

DIVISION OF PLANT INDUSTRY:

FEEDS	1791	1798	3208	415
FERTILIZERS	1493	1275	2218	328
FORMULATION				
PESTICIDES	523	537	623	58
LIMING				
MATERIALS	129	113	345	64

FEEDS	514	472	1027
FERTILIZERS	96	130	329
LIMING			
MATERIALS	39	32	137

F.D.A. Assays - None

DIVISION OF ANIMAL INDUSTRY

	SAMPLES	TESTS
TOXICOLOGY	209	236
FEED	217	422
BLOOD	110	301

ACTIVITIES OF THE DIVISION OF PLANT INDUSTRY

SEED PROGRAM

Seed Labelers Permits Issued	204
Seed Labels Issued	0
Packet Vegetable Seed Fees	$26,483.87
Seed Tags Issued	2,111
Seed Tonnage Fees	$112,217.56
Inoculant License Issued	5
Applicator's Licenses Issued	157
Income - Laboratory Services	$4,922.00
Total Income	$147,286.09
Inspections	5,306
Samples Taken	2,658
Samples Analyzed	2,407
Stop Sales	49
Relabel	204

ACTIVITIES OF THE DIVISION OF PLANT INDUSTRY

DICK TOOTLE, CHIEF

Report of the period of Jan. 1 - Dec. 31, 1985

Miles traveled in State Cars	742,537
Miles traveled in Private Cars	9,978
Number of personnel	67

APICULTURE PROGRAM

Registration Certificates Issued	9,029
Delinquent Fee Receipts Issued	222
County Appointments Approved	92
County Supply Orders	68
County Expense Reports Processed	379
Consumer - Beekeeper Requests	872
Income	$12,980.00
Certificates and Permits Issued	
Certificate of Health (Out of State Movement)	13
Permit of Entry into Ohio	10
Quarantine Apiary Movement	23
Queen Rearing Certificate	4
Transfer Ownership Permit	152
Total Apiaries Inspected	9,209
Total Colonies Inspected	58,093
Interstate Movement Inspections (colonies)	6,683
Disease Samples Taken for Diagnosis	362

FEED PROGRAM

License Issued	1,045
Tonnage Processed	1,476(1,579,492.2
Income	$163,654.22
Inspections	2,376
Samples Collected	1,518
Samples Reported	1,772
Samples Out of Tolerance	451
FDA Medicated Feed Inspection Hours	251/1,313 hr.

FERTILIZER PROGRAM

License Issued	667
Registrations Issued	1,419
Tonnage Processed	906(2,255,991)
Income	$345,957.12
Inspections	1,764
Samples Collected	1,384
Samples Reported	1,395
Samples Out of Tolerance	336
Anhydrous Ammonia Inspection Hours	353/1,998 hrs.

ACTIVITIES OF THE DIVISION OF PLANT INDUSTRY

PLANT PEST CONTROL SECTION ACTIVITIES

Nursery Inspection Certificates Issued		1,334
Nursery Dealers Certificates Issued		3,053
Hardy Bulb Dealer Certificates Issued		98
Nursery Agents Certificates Issued		50
Total Income		$110,445.00
Nursery Inspections		
Initial Inspections of Nursery Year		1,359
Recall Inspections		374
Storage Inspections		44
Strawberry/Raspberry Inspections		35
Restrictions		18
Dealer Inspections		2,368
Stop Sales		977
Seizures		5
Rejection Notices		80
Special Inspections		
Inspections of Plant Material for Homeowners Moving to Other States	92	165 hrs.
Export Certificates of Nursery Stock and Other Agricultural Commodities	474	1,111 "
Post-Entry Quarantine Inspections		49
Investigations		1,212
Prosecutions		0
Pest Diagnosis		448

PLANT PEST CONTROL PROGRAMS

Federal-State

Barberry Eradication	134 hrs.
Gypsy Moth	7,966 "
Japanese Beetle	100

State

Soybean Cyst Nematode	0
Geranium Pests	287 "
Premises Quarantined	0

SPECIAL PROJECTS 1,159 "

LIMING MATERIAL PROGRAM

License Issued	80
Tonnage Processed	40
Income	$6,831.97
Inspections	143
Samples Collected	156
Samples Reported	112
Samples Out of Tolerance	36

PESTICIDE REGULATION SECTION

Miscellaneous Income	$103.20
Pesticide Registrations Issued	903
Pesticide Registration Income	$147,960.00
Pesticide Applicator Licenses Issued	2,116
Pesticide Applicator Income	$137,815.00
Pesticide Operator Licenses Issued	2,033
Pesticide Operator Income	$55,230.00
Limited Commercial Licenses Issued	540
Limited Commercial Income	$18,870.00
Pesticide Public Operator Licenses Issued	1,543
Private Applicator Certifications	1,111
Pesticide Dealer License Issued	572
Pesticide Dealer Income	$ 6,380.00
Total Income	$ 366,358.20
Inspections	
Pesticides	753
Certification of Applicator	809
Dealer	423
Pesticide Samples Taken	563
Pesticide Samples Analyzed	490
Pesticide Active Ingredients Analyzed	679
Pesticide Samples Out of Tolerance	47
Samples (Plant and Soil) Taken and Analyzed	218
Pesticide Incidents Investigated	203
Spills	28
Farms	20
Human	16
Other (Lawns, Ornamentals, Gardens)--etc.	85
Consumer Complaints Handled	242
Exams Taken - Office C-591;P-23 Field C2449:P1608 Total	C-3,040;P-1,631
Special Schools and/or Exam Scheduled	211
Prosecutions	6
Convictions	3
Hearings	3
Use Inspections	15
Establishment Inspections	58
Stop Sales	16
Notice of Warning	21
Bulk Installations	22
EUP's	8
Record Checks	22

DIVISION OF FOODS, DAIRIES AND DRUGS
Frank Neel, Chief

The Foods, Dairies and Drugs Division is responsible for the inspection of over 18,027 food establishments in the State of Ohio. Including the licensing of 4,307 bakeries, 163 bottling plants, 79 syrup and extract firms, 1,249 frozen food establishments and 92 canneries during the January 1, 1985 through December 31, 1985.

These inspections require compliance with the laws of the State of Ohio regarding sanitation, product control, labeling and adulteration. Retail food markets constitute the largest single type of establishments inspected by our Division, numbering in excess of 20,000 units. All food establishments require two inspections annually bringing the total number of inspections by our Division on a yearly basis to over 50,000. Over 1,700 samples of food are submitted to the Consumer Analytical Laboratories for analysis by our Inspectors, where 5,800 tests are run for bacteria, adulteration, quality and labeling.

Grade B Milk Inspection

Foods, Dairies and Drugs inspectors annually inspect sanitation, handling and storing of manufactured milk products of all dairies except Grade "A" plants in Ohio.

All milk dealers must show financial responsibility for raw milk purchased from farm producers. The Ohio Food, Drug, Cosmetic and Device Law was enforced on any dairy food found not in compliance. Foods, Dairies and Drugs reviewed and commented on all labeling and advertising of dairy products having a standard of identity. There were 1,129 frozen dessert establishments licensed and inspected during the time of January 1, 1985 and December 31, 1985. All bulk milk haul weighers, samplers, and testers were examined and their annual licenses were renewed.

Farm producers are to be inspected for sanitary conditions annually. Likewise each manufacturing facility requires an annual inspection for sanitation and an audit of records required by law covering bacteria, sediments, butterfat tests, antibiotics, chemical and pesticide residues.

JANUARY - DECEMBER 1985 STATISTICS

Bakeries	4,301
Soft Drinks	163
Syrup & Extracts	79

Frozen Food Establishments	1,249
Canneries	92
Cold Storage Warehosue	60

Dealers	95
Frozen Dessert	1,129
Weigher, Sampler, Tester	869
Temp. W.S.T.	82

DIVISION OF MEAT INSPECTION

Samuel R. Waltz, Chief

The Division of Meat Inspection is responsible for administering the Ohio Meat Law in such a manner as to conform to provisions of the Wholesome Meat Act passed by Congress in 1967. The Ohio program, as those of other states, is subject to review by the Federal Meat Inspection Service and must be certified as "EQUAL TO" federal inspection through quarterly reviews.

The Division operates its field program through 13 geographical districts, each district being supervised by a veterinarian and one or more program supervisors. Overall supervision of the program is provided by the Division Chief and Assistant Chief with the support from the technical staff headquartered at 8995 East Main Street, Reynoldsburg, Ohio.

The objective of the Meat Inspection Program is to assure that meat and poultry products are processed under sanitary conditions, are wholesome, unadulterated and properly labeled. To accomplish this, inspection is accomplished in the following steps:

1. Approval of Plant Facilities and Sanitation - Each establishment must provide a safe water supply, adequate sewage disposal system properly installed plumbing and drainage system and such other facilities and procedures as are necessary to maintain sanitary conditions within the estabishment and to allow the production of wholesome products.

2. Antemortem and Postmortem Inspection - Each animal/bird slaughtered for human consumption is examined by division inspectors before slaughter, and its carcass is examined at the time of slaughter and dressing to determine that it is wholesome and free of contamination. Animals and carcasses found to be diseased are handled under veterinary supervision to assure that all meats and poultry which are diseased or otherwise unwholesome are disposed of in a manner to preclude their entering the public food supply.

3. Reinspection - Products passing postmortem inspection are subject to reinspection at every stage of handling to assure that only wholesome products, properly identified with an Ohio inspection legend leaves the establishment.

4. Preparation - Industry is required to exercise controls during the preparation of processed products to assure that only wholesome ingredients are used and that added substances are approved and used only in allowable quantities. Processes under meat must be adequate to eliminate the trichinae hazard, if pork is an ingredient of a product which is to be eaten without further cooking. The establishment is required to follow written formulas and processing procedures.

5. Labels - Labels to be used on processed products must be submitted to the division for advance approval. These labels on consumer packages must bear the Ohio inspection legend. This is the consumers assurance that the product was wholesome, unadulterated and properly labeled when leaving the establishment.

DIVISION OF ANIMAL INDUSTRY
Dr. Harry Goldstein, Deputy Director/Chief

Construction of the new animal disease laboratory building has commenced. This facility will provide approximately 13,000 square feet of specialized equipment and work areas dedicated to service to Ohio's livestock industry. Estimated completion date is August 1, 1986.

This Division is charged with the promotion and protection of the Ohio livestock industry. Its table of organization contains four major sections which are: Animal Disease Programs; Licensing, Inspection and Quarantine; Pathology Services; and Biological Tests. Summaries of the major activities during Calendar Year 1985 follows:

Animal Disease Programs

Tuberculosis - Ohio had no herd quarantined for tuberculosis as of December 31, 1985.

Brucellosis - Ohio identified three brucellosis infected herds during the report period, two dairy and one beef. The beef herd population was in excess of 1,000 animals and was dispersed over two counties. Introduction of an infected animal(s) from another state was the source of infection in the three herds. No area spread has been identified to date. Ohio remains a designated "Class A" area indicating a herd infection rate of 0.25 percent or less.

Equine Infectious Anemia - Testing has revealed three premises with more than one positive horse. The department has stepped up epidemiology to locate exposed horses. This has been productive in locating and quarantining infected horses.

Pseudorabies PRV - The Division has dedicated extensive time and expertise trying to control and reduce the spread of this disease within Ohio's swine industry. Increased surveillance has helped locate 72 new quarantined herds in 1985. There were 93 herds under quarantine on December 31, 1985. We have successfully eliminated the virus from 161 herds during the past eight years. This includes several farrow to finish operations with 100 - 350 sows and two swine feedlots with 1000 and 2000 head that were released from quarantine without depopulation and without extensive downtime. In January 1985, Ohio's swine industry started to use a round plastic swine tag to identify cull sows and boars at livestock markets when sold for slaughter. Blood samples from identified swine are collected at slaughter and sent to this laboratory for PRV testing.

During 1985, we ran 33,174 SN tests on these slaughter bl[illegible] samples. Positive samples were then traced to the farm of origi[illegible] using livestock market records. This effort located 21 PRV positive herds in 1985 which were quarantined, thus limiting the potential spread from these herds. This program has proven to be a cost effective method to find infected herds. The Department has enjoyed outstanding cooperation from market and packing plant personnel implementing the program. Surrounding states are now looking at the Ohio Program and may be implementing similar programs. During the 1985 fair season 21,176 serum samples were received by the laboratory and tested for PRV to meet the state exhibition requirement. One infected herd was found in 1985 because of the fair test requirement.

Licensing, Inspection and Quarantine (LIQ) - The LIQ issues licenses to the following: Livestock dealers, livestock auction markets, livestock concentration yards, slaughter establishments, livestock weighers, garbage feeders, rendering plants, and raw rendering material collectors.

The LIQ helps protect the livestock farmer when selling him animals by insuring accurate weights and requiring scales to be tested every six months. We require and monitor the record keeping system of dealers and markets so that epidemiological tracing can be accomplished in the event of disease outbreaks.

Swine garbage feeders are inspected monthly. At theses inspections, the cooking temperature of the feed (garbage) is checked, the general sanitation of the premises is inspected and the health of the animals is evaluated. This program prevents the spread of exotic and domestic diseases.

Pathology Services - Pathological services include necropsy, histopathology, bacteriology, and parasitology. Clinical pathology and toxicology are available on a limited bases. These studies combined with the information obtained from history, serology, and virology are the basis for making a diagnosis. The diagnosis, with laboratory findings, is reported to the veterinarian and animal owner who submits specimens to the laboratory.

Biological Tests - The Biological Tests Section serves the Division of Animal Industry with various tests needed for regulation and diagnostic efforts. These tests primarily involve serology with some limited work in virus isolation using egg inoculation and cell culture techniques. The present test service includes brucellosis, equine infectious anemia, pseudorabies, leptospirosis, bluetongue, anaplasmosis, bovine leukosis, bovine virus diarrhea, infectious bovine rhinotracheitis, para influenze-3, and various poultry serologic and culture technique.

January 1, 1985 - December 31, 1985

ANIMAL DISEASE PROGRAMS

Activities

BRUCELLOSIS

Farm Blood Tests - Herds	2,163
Cattle	16,989
Milk Ring - Herds	9,946
Cattle	387,894
Market Cattle Blood Tests	158,404
Over-all Infection Rate (Cattle)	.009%
Calves Vaccinated	62,667

TUBERCULOSIS

Tuberculin Tests - Herds (Cattle)	2,822
Number of Cattle	41,567
Herds w/reactors	1
Number of reactors	12

EQUINE INFECTIOUS ANEMIA

EIA tests of Ohio horses	36,264
Number of Ohio horses "Positive"	13
Percent of total tested	.036%
Number of Positive horses destroyed	9

PSEUDORABIES

Swine tested (serum neutralization test)	85,372
Infected herds found	72
Herds using Pseudorabies vaccine	45
Quarantined herds (on 12-31-85)	93

LICENSING, INSPECTION AND QUARANTINE

Activities

Type of License Issued	
Auction Markets	33
Horse Auctions	8
Concentration Yards	83
Slaughtering Establishments	113
Livestock Dealers	183
Weighers	586
Rendering Plants	11
Collectors of Raw Rendering Material	35
Garbage Feeders	13
Inspections Performed	
Sheep Scabies (head)	52,077
Auction Markets	2,485
Concentration Yards	1,378
Rendering Plants and Raw Rendering Material Collectors	91
Garbage Feeders	135
Permits to Import Feeder Pigs	
Headage	208,308
Permits issued	1,707
Premises Inspected	1,350

PATHOLOGY SERVICES

Activities

Diagnostic accessions		4,449
Necropsies (include avian and mammalian)		4,562
Clinical pathology accessions		301
Feed analysis		422
Toxicological tests		236
Rabies examinations		121
Bacteriology procedures	Johne's	775
	Brucella	178
	Other	7,807
Laboratory animals used in diagnostic procedures		25
Tissues examined histologically		3,321

BIOLOGICAL TESTS

Activities

Brucellosis tests - Cattle	215,974
- Swine	49,736
- Other	5,281
Brucellosis ring tests	39,407
Brucella Canis tests	189
Equine Infectious Anemia	36,262
Pseudorabies tests	85,372
Bluetongue - AGID	3,107
Anaplasmosis tests - Card	2,339
- Complement Fixation	1,635
Bovine leukosis tests	1,304
IBR tests	170
BVD tests	177
PI^3 tests	78
Leptospirosis tests	27,204

Biological Tests continued -

FA cases	896
Virus isolation cases - (egg inoculation)	0
- (tissue culture)	70
Acridine Orange Case Evaluation	
- Eperythrozoonosis	39
- Anaplasmosis	0
Salmonella pullorum tests	7,965
Salmonella typhimurium tests	13,492
Salmonella gallinarium tests	2,325
Mycoplasma gallisepticum tests	15,500
Mycoplasma gallisepticum - HI tests	7,256
Mycoplasma synoviae tests	11,299
Mycoplasma synoviae - HI tests	998
Mycoplasma melegradis tests	12,699
Newcastle disease virus - HI tests	7,096
Infectious bronchitis - HI tests	1,743
Infectious bronchitis - ELISA	403
Micro Immuno Diffusion Tests - Avian	
- Infectious Bursal Disease tests	116
- Avian Influenza tests	518
- Viral Arthritis tests	21
- Infectious Bronchitis tests	26
- Hemmorhagic Enteritis tests	326
Avian Micro	
- Tissue Smear	
- Gram	82
- Gimenez	3
- A.O.	128
- F.A.	145
- Bact. Culture	
- Tissue	337
- Salmonella total	
- Specimen	4,697
- Cloacal swab	7,015
Samples Prepared and Shipped	52

DIVISION OF FAIRS AND AMUSEMENT RIDE SAFETY

Don Maddux, Chief

The activities of the Division, being established in January of 1985, are numerous.

The Division initially interviewed, hired, and trained inspectors. There was a turn over of 1 inspector in 1985. At this point, there are 11 inspectors, 2 supervisors and 1 Chief Inspector. All inspectors were trained by a variety of experts in different fields including employees of several other state departments, in state as well as out of state inspectors, and a consultant firm contracted by the Department specifically for this purpose. Other internal activities worth noting are the organizing of the Division staff, the establishing of office policies and procedures, and the developing of a schedule for the field inspectors.

It is important to mention the excellent working relationship and spirit of cooperation which is existing among the Division of Fairs and Amusement Ride Safety and the Department of Industrial Relations and the State Fire Marshal's office. Within the Department of Agriculture, the new Division has been assisted with expert help for the employees of Food, Dairy and Drugs in the areas of ride and concession inspection and licensing.

The Division appointed members to the statutorially created Ride Safety Advisory Committee which has greatly assisted the Division in establishing ride safety related policies and recommendations, many of which were adopted by the Director in the Department's Agriculture Rules. Also, created after our first year was a Game Advisory Committee to propose possible changes in these game rules. At this writing, the commission has submitted their recommendations to be heard at a Public Hearing under Chapter 119 of the Revised Code. The Fairs & Amusements Ride Safety Division plans to have these rules in effect by the opening of the first county fair in June of 1986.

In June, the Department's Agriculture Rules were approved by the Governor through the use of his emergency powers. These rules are now in force and are awaiting a date for public hearing under Chapter 119 of the Ohio Revised Code.

A great deal of the success of the new Division is due to the fact there were monies available to: hire training consultants; hire other contract employees; purchase needed equipment, including State automobiles.

Probably the most important items to note in this report are how well trained the inspectors are and, therefore, the excellent way in which they are performing their duties; and, how well these inspectors have been accepted by the ride amusement industry. Because of the rather wide spread acceptance of the ride inspectors by the industry, very little dissatisfaction has been demonstrated by industry toward the inspectors.

The industry sees the inspectors as fair, cooperative, competent, and easy with which to work. To date, each inspector has been trained in at least twenty-two (22) areas for which they will continue to undergo extensive continuous training throughout the year.

1985 SEASON ACCIDENT REPORTS (AS REPORTED)

Total Accidents Reported to Ride Division 55
- Permanent Park Reports - 33
- Portable Ride Reports - 23

Causes:
- Operator Error - 8
- Unknown - 14
- Mechanical - 9
- Patron - 24

REVENUE

Ride Licenses	$19,405.00
Inspection Fees	59,320.00
Game Licenses	18,510.00
Novelties & Sales	16,410.00

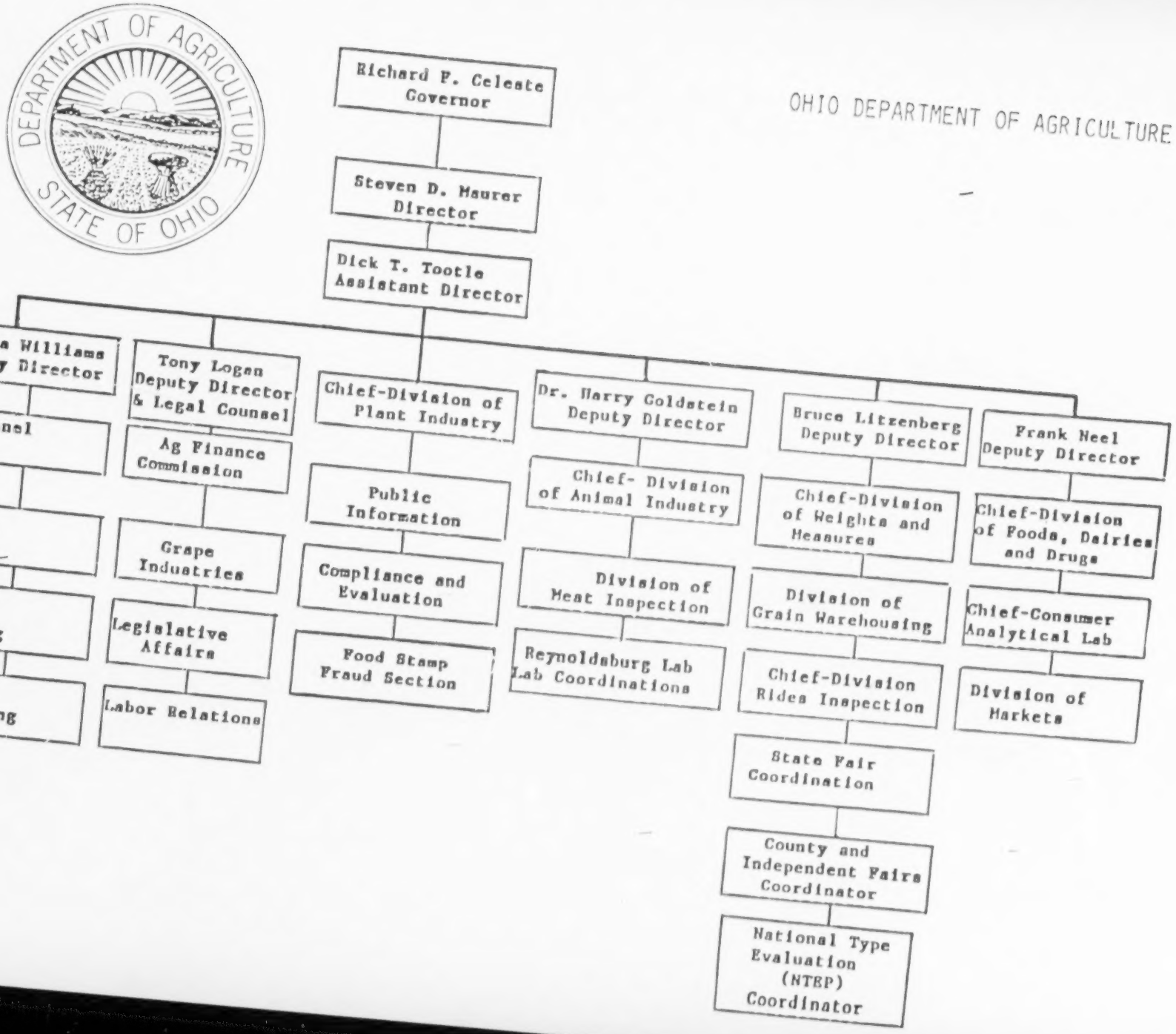
Total Requiring Hospitalization 41

Breakdown by Months: April (1) May (5) June (16) July (20) August (8) September (5)

Total Number of	Parks & Events Inspected	940
"	Rides Inspected	9,059
"	Ride Licenses Sold	1,294
"	Ride Companies & Parks	120

This does not include State Fair: State Fair Reports from First Aid list 226 people being treated for minor items with only one person being transferred to a hospital. The person transported was not kept at hospital (treated and released). The First Aid Station report for 1985 was down by 147 accidents from 1984.

OHIO DEPARTMENT OF AGRICULTURE



June 1986